



For the love of ham radio.

50th Anniversary 1957-2007
AES
Amateur Electronic Supply

HAM RADIO CATALOG SPRING/SUMMER 2007

5710 W. Good Hope Rd.
Milwaukee, WI 53223
414-358-0333
1-800-558-0411
Fax 414-358-3337
Service 414-358-4087
milwaukee@aesham.com

28940 Euclid Ave.
Cleveland, OH 44092
440-585-7388
1-800-321-3594
Fax 440-585-1024
cleveland@aesham.com

621 Commonwealth Ave.
Orlando, FL 32803
407-894-3238
1-800-327-1917
Fax 407-894-7553
orlando@aesham.com
Vendedores Hispanos

4640 South Polaris Ave.
Las Vegas, NV 89103
702-647-3114
1-800-634-6227
Fax 702-647-3412
lasvegas@aesham.com
Deutsch Sprechend Verkäufer
Vendedores Hispanos

Store Hours
Mon-Fri • 9am to 5:30pm
Saturday • 9am to 3pm

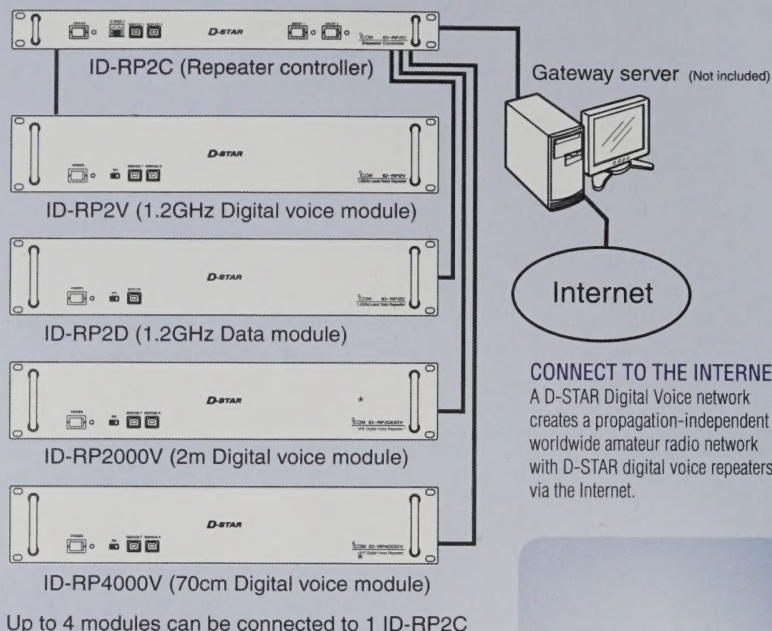
1-800-558-0411
www.aesham.com

ZL8R. 40,000 QSOs!



All IC-7000

D-STAR REPEATER SYSTEM



ID-RP2C REPEATER CONTROLLER

The cornerstone of the D-STAR repeater system. Handles up to four RF modules. Basic in-band or crossband operation. Linking capabilities through the internet and future 10GHz backbone products.

ID-RP2D 23CM DIGITAL DATA MODULE

Access point with a data rate of 128kbps. Depending on the system setup, set up an email and/or file server for EmComm support. Perfect for web applications or support via internet connection.

ID-RP2V 23CM DIGITAL VOICE MODULE

ID-RP4000V 70CM DIGITAL VOICE MODULE

ID-RP2000V 2M DIGITAL VOICE MODULE

Finally, commercially available crossband repeaters! With proper callsign programming in any D-STAR compatible mobile or portable, the Icom D-STAR repeaters will automatically route your signal to any other RF module connected to a common RP2. With simple repeater commands, you can direct your communications through any of the RF modules or across the world via the gateway.

CONNECT TO THE INTERNET

A D-STAR Digital Voice network creates a propagation-independent worldwide amateur radio network with D-STAR digital voice repeaters via the Internet.

D-STAR:
**CONNECT ACROSS
MILES INSTEAD
OF METERS!**

DIGITAL



NEW IC-2820H D-STAR UPGRADEABLE 2m & 70cm

50/15/5W RF Output Levels • Right Band RX: 118-173.99, 375-549.99, 810-999.99MHz*; Left Band RX: 118-549.99MHz* • Analog/Digital Voice with GPS (Optional UT-123) • 500 Alpha-numeric Memories • Diversity Receive Capable

UT-123 GPS MODULE AND ANTENNA



ID-1 GO DIGITAL ON 1.2GHz

10 Watt • High Speed Digital Data, Digital Voice, Analog Voice (FM) • Wireless Internet/Network Capable • PC Control via USB Port • Digital Callsign & Digital Code Squelch



ID-800H GO DIGITAL ON 2m & 70cm

55 Watt VHF/50 Watt UHF • Wide RX: 118-173, 230-549, 810.999 MHz* • Analog/Digital Voice & Data • Callsign Squelch • CTCSS & DTCSS Encode/Decode w/Tone Scan



IC-2200H DIGITAL UPGRADEABLE FOR 2m

65 Watt • 207 Alphanumeric Memories • Digital Voice & Data w/Optional UT-118 • Optional Callsign Squelch • CTCSS & DTCSS Encode/Decode w/Tone Scan • Weather Alert

2m and 70cm digital voice meet Main Street, U.S.A.!

Meet the future of amateur radio, today. D-STAR repeater systems are coming to more locations around the country. Jump in! D-STAR forum: www.icomamerica.com/support/forums

ICOM ID-RP4000V
UHF Digital Voice System

ID-RP2000V
ID-RP4000V

D-PRS®

The low-speed data port found in Icom D-STAR handheld radios is compatible with a GPS NMEA data interface. With GPS data integrated into the D-STAR digital data stream, your location data is forwarded to the D-PRS server where gateway software connects you to the APRS® reporting system. The interface is built-in to D-STAR radios – no separate TNC and transceiver required!

DIGITAL SIGNALS = PIN-DROP CLARITY

Since D-STAR is fully digital at the terminal-to-terminal level, the network provides noise-free stable communications as if all of the D-STAR terminals are located in the same area, regardless of real geographical separation!

INTEROPERABILITY, CROSS BAND OPERATION

D-STAR digital voice radios can communicate even when they are on different bands. For example, a 2m DV radio can talk to a 70cm or 1.2GHz DV radio via repeater(s). Make D-STAR your new emergency communications standard.

THE FUTURE IS GLOBAL

Take your 2m/70cm nationwide... even worldwide! Icom D-STAR capable handhelds and mobiles, like the IC-U82 and IC-2200H shown below, now allow your local or regional communications to go global when used with these new D-STAR repeaters. It's a whole new ball game!

IC-V82 & IC-U82

DIGITAL UPGRADEABLE FOR 2m OR 70cm

7 Watt VHF or 5 Watt UHF • 200 Alphanumeric Memories • Digital Voice & Data w/Optional UT-118
Optional Callsign Squelch • CTCSS & DTCSS Encode/Decode w/Tone Scan • Weather Alert



IC-91A & IC-91AD

ADVANCED ANALOG & DIGITAL DUAL BANDER

5 Watts 2m and 70cm • 1300 Alphanumeric Memories
Digital Voice/Data Ready (91AD) or Upgradeable
w/Optional UT-118 (91A) • 495kHz - 999.990MHz* • V/V,
U/U or V/U • Weather Alert • Dual Watch • Li-ion Power



ICOM®

*824-849, 869-894 (Approximately) Blocked.

©2007 Icom America Inc. The Icom logo and DPRS are registered trademarks of Icom Inc. All other trademarks remain the property of their respective owners.
All specifications are subject to change without notice or obligation. 9111

AES LOCATION MAPS	298	HAL	66
AES MANUFACTURER INFO	139	HARGER	109
AES ORDER BLANK	134	HEIL SOUND	60, 113
AES POLICIES	135	HIGH SIERRA	90
AES PRICE GUIDE (by mfg. A-Z)	3-26	HOUSE OF DEALS (CONNECTORS)	107, 132
AES SALES STAFF	136	HUSTLER ANTENNAS	81, 82, 83, 117
AES SERVICE DEPT./SHIPPING INFO	137	HY-GAIN	86, 96
AES USED & DEMO EQUIPMENT	27	IBS	116, 124
RADIO COMPARISON CHARTS	51-53	ICC	67
MANUFACTURERS		ICOM CI, CII, CIII, CII, 1, 32, 33, 34, 35, 36, 37, 59, 64, 91, 102, 118, 119, 121, 122, 140	
AIM ELECTRONICS	55, 106, 107	IDIDIOM PRESS (LOGIKEY)	63
ALAN BROADBAND	104	ISOTRON (BILAL)	87
ALINCO	28, 29, 121, CIV	K-COM	110
ALPHA DELTA	85, 108	KANTRONICS	66
AMECO	63, 110	KENT KEYS	63
AMERITRON	58, 102, 105, 108	KENWOOD	38, 39, 40, 60, 110
AMPHENOL	107	KESTER	131
ANTENEX	92	KLEINHUIS	109
ANTENNA SPECIALISTS	90	KOSS	131
ANTENNA SUPERMARKET	125	LDG ELECTRONICS	100, 101
AOR	65, 122	LACROSSE	56, 126
ARRL PRODUCTS	65, 110, 112, 113, 114, 115, 116	LAKEVIEW	90
ARROW ANTENNA	91, 93	LARSEN	78, 79, 117
ARTSCI	67, 113	LIGHTWAVE	132
ASTRON	55	LOGSAT	116
AUDIOVOX (XM)	123	M2 ANTENNA SYSTEMS	92, 97
AVMAP	39, 128	MFJ	30, 54, 56, 57, 60, 61, 62, 65, 66, 67, 87, 89, 90, 91, 93, 98, 99, 103, 104, 105, 108, 110, 116, 125, 132
B&W	87, 89	MAHA	56
BMI	132	MALDOL	68, 69, 70, 71
BELDEN	106	MEADOW RIDGE PRODUCTS	89
BENCHER	63, 110, 132	MIDLAND	60, 117, 119, 127
BETTER RF COMPANY	63, 102	MIRACLE ANTENNA	93
BOUNTY HUNTER	103	MIRAGE	59
BUCKMASTER	89, 116	NGC	56
BUSHNELL	133	NCS	64
BUTTERNUT	92	NORCOMM	64
CQ PUBLICATIONS	113, 114	NUTS & VOLTS	116
CABLE X-PERTS	106, 107, 109	OUTBACKER	91
CHANNEL MASTER	97	PALOMAR ENGINEERS	98, 110, 125
COAX SEAL	108	PALSTAR	102, 103
COAXIAL DYNAMICS	105	PENETROX	108
COBRA	117	PHILMORE	107
COMET	68, 69, 70, 71, 108	POLYPHASE	56, 109, 115
COMMUNICATION OUTFITTERS	67	POWERWERX	57
COMMUNICATIONS SPECIALISTS	64	PRO AM/VALOR	84
CONNECT SYSTEMS INC (CSI)	66, 115	QRZ	115
CREATIVE SERVICES SOFTWARE (CSS)	66, 115	RADIOWAVE	88
CROSS DEVICES (CRS)	108	SGC	59, 98
DAIWA	55, 105, 108	SAMLEY AMERICA	55
DALBANI CONNECTOR	107	SANGEAN	124
DAVIS	127	SEQUOIA	116
DCI	110	SHAKESPEARE	107, 119
DIAMOND ANTENNA	55, 72, 73, 74, 75, 76, 77, 105, 108	SMILEY ANTENNA	93
ECG	97	SOLARCON	92, 117
ESP	61	SONY	125
EASY-UP	98	SYNTHETIC TEXTILES	89
ELK ANTENNAS	93	TERK	129
EXCALIBUR	132, 133	TIMES MICROWAVE	66, 106
GAP	61, 80	TIMEWAVE	61, 103
GARMIN	128	TRIPP LITE	56
GEAR KEEPER	92	US TOWER	94
GLEN MARTIN ENGINEERING	67	UNIDEN	117, 118, 120, 121
GROTHE ELECTRONICS	131	UNIFIED MICROSYSTEMS, W9XT	63
GROVE	116	UNIVERSAL TOWERS	95
GRUNDIG/ETON	122, 123	VANCO	56, 105, 107, 109, 129, 130, 131

VANGORDEN ENGINEERING	89	HT QUAD-BAND FM	48, 49
VECTRONICS	67, 98, 105	INTERCONNECTS	67
VELLEMAN	130, 131, 133	INTERNET LINKING	64
VIBROPLEX	63	KEYS/KEYERS/PADDLES/READERS	62, 63
W2AU (UNADILLA)	88	MARINE RADIOS/ANTENNAS	118, 119
WART	102	METAL DETECTORS	133
WSYL/GORDON WEST PUBLICATIONS	111	MICROPHONES & ACC	33, 38, 40, 60
WATFL (LADDER LOC)	89	MICROPHONE AUDIO PROCESSOR	61
WAHL CLIPPER CORP	131	MOBILE 2M FM	CII, 28, 30, 35, 36, 39, 46, 47
WALNUT CREEK PUBLICATIONS	116	MOBILE 6M FM	30
WATSON GUTTLER PUBLICATIONS	116, 124	MOBILE 220MHz FM	28, 30, 36
WELLER	130, 131	MOBILE 440MHz FM	28, 30
WEST MOUNTAIN RADIO	57, 65	MOBILE 1.2 GHz FM	CII, 34, 36
WILEY	113, 116, 127, 128	MOBILE 2M/440 FM	CII, 28, 30, 34, 35, 36, 39, 46, 47
WILSON	117	MOBILE MULTI-BAND FM	46, 47
WINEGARD	129	MOBILE MULTI-MODE (FM/SSB)	33, 42
YAESU	42, 43, 44, 45, 46, 47, 48, 49, 50, 59, 60, 64, 90, 97, 119, 122	MULTI-MODE DATA CONTROLLERS	66
PRODUCT TYPE		NIGHTLOGGER	67
AIRCRAFT RADIOS	119	PACKET/HF MODEM	66
ATT TRANSMITTER	67	PORTABLE PACKS	56, 67
ACTIVE RECEIVE ANTENNAS	125	POWER OUTLETS/PANELS	56, 57, 101
AMPLIFIERS (HF & ACCESSORIES)	32, 58, 59	POWER PLUGS/ADAPTERS	56, 57
AMPLIFIERS (VHF/UHF & ACCESSORIES)	59	POWER SUPPLIES/INVERTERS/BACKUP	28, 29, 30, 38, 47, 54, 55, 56, 57
ANTENNA TUNE CONTROLLERS	90, 102	PREAMPLIFIERS	59
ANTENNAS, MOUNTS & ACC	42, 68, 69, 70, 71, 72, 73, 74, 75, 76, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 89, 90, 91, 92, 93, 122, 125	QRP RADIOS	30, 34, 36
ANTENNA TUNERS/AUTOMATIC	29, 42, 98, 99, 100, 101, 102	QSL CARD HOLDERS	67
ANTENNA TUNERS/MANUAL	98, 99, 102	RTTY TUNING CONTROLLER	66
AUDIO CONSOLES/CONTROLLERS	64	RADIO SWITCHES & CONSOLES	64
ANTENNA WIRE	89	REPEATERS	CII, 1, 64
BALUNS/INSULATORS	86, 88, 89, 101	RECEIVERS/AIRCRAFT	121
BATTERIES/CHARGERS/ANALYZER	56	RECEIVERS/COMMUNICATIONS	121, 140, CII
BOOKS/SOFTWARE/MAPS	66, 110, 112, 113, 114, 115, 116, 124, 131	RECEIVERS/EMERGENCY SELF POWERED	123
CB EQUIPMENT	117	RECEIVERS/PC	121, CII
CLIMBING HARNESSSES	92	RECEIVERS/SHORTWAVE	122, 123, 124, 125
CLOCKS	132	RECEIVERS/WIDE RANGE & MINI	29, 121, 122, CII
COAX CONNECTORS/ADAPTERS	67, 107	RECEIVER/XM SATELLITE RADIO	123
COAX CABLE/LADDER LINE	70, 77, 79, 88, 106	ROTORS/CABLE/ACC	96, 97, 106
COAXIAL ANTENNA/MIC SWITCHES	58, 64, 77, 85, 101, 108	SCANNERS/BASE MOBILE & HT	120, 121
CONTEST CARD (W9XT)	66	SIRENS & HORNS	131
DX BEACON	67	SOLDERING & ACCESSORIES	130, 131
D-STAR	CII, 1, 34, 35, 36, 37, 64	SOUND CARD INTERFACES	65
DACRON/NYLON GUY ROPE	80, 89	SOUND LEVEL METER	130
DIGITAL VOICE	65	SPEECH COMPRESSOR/PROCESSOR	43
DSP/NOISE REDUC/SPEECH ENHANCER	61, 80	SPEAKERS/ENHANCER	33, 38, 39, 40, 47, 60, 61, 80
DUMMY LOADS	58, 77, 104, 105	SPECTRUM DISPLAY	122
DUPLEXERS/TRIPLEXERS	77, 93, 108	SPEED GUN	13
ELECTRONIC LAB KITS/OTHER KITS	67, 133	STICKY PAD	67, 133
ENCODERS/DECODERS	64	SURGE/LIGHTNING PROTECTION	56, 58, 77, 85, 106, 108, 109
FAMILY RADIO/GMRS	119	SWR/WATTMETERS/ANALYZERS	29, 101, 103, 104, 105
FILTERS (LOW/HIGH & BANDPASS)	38, 43, 110	SWR/WATTMETER/TALKING	57, 58, 101
FILTERS (TELEPHONE/TOROID)	110	TV/STEREO ANTENNAS & ACCESSORIES	129
FLASHLIGHTS/FLARES	132	TALKING CHESS SET	133
FREQUENCY COUNTER	104	TEST EQUIPMENT	56, 57, 58, 104, 130
GPS/APRS	CII, 39, 66, 79, 128	TOOLS	106, 130, 131
GEAR KEEPER	67	TOWERS/TRIPODS	90, 94, 95, 98
HEADPHONES/EARPHONES	38, 40, 60, 131	VHF DATA RADIOS	66
HF RADIOS	28, 30, 32, 33, 34, 36, 38, 42, 43, 44, 45	VHF/UHF/SATELLITE RADIO	33
HT 2M FM	1, 28, 31, 35, 36, 37, 40, 49, 50	VLF CONVERTERS	125
HT 220 MHz FM	28, 31	VOICE KEYS	63
HT 440 MHz FM	1, 28, 31, 35, 36, 50	WEATHER PROTECTION	108
HT 2M/440 FM	1, 28, 31, 36, 37, 40, 48, 49	WEATHER RADIOS/INSTRUMENTS	126, 127
HT TRI-BAND FM	36, 37, 40, 48, 49	WI-FI ANTENNA	65
		XM RADIO TUNER/ANTENNA	123



CODES WITHIN THE PRICE GUIDE

(T) Item too large for ground shipment. Shipment by truck only. No COD, send payment in advance or use charge card for merchandise. Freight charges collected upon delivery.

Note: Charges for truck shipments from 1-99 lbs are running a minimum of \$80.00, plus local destination charges. It is advisable to contact a local freight office for a quotation.

(D) **DISCONTINUED** by Manufacturer but available from stock in limited quantities when price guide was published.

(†) **TEMPORARY LOW PRICE** due to special purchase, over stock, etc. Quantities may be limited at this price.

(Δ) Item **not** discontinued by Manufacturer but probably won't be available from AES when present stock is gone.

All Prices and Specifications in this catalog are subject to change without notice. Due to foreign currency fluctuations, promotions, manufacturer's specials, etc. prices may vary, so please confirm prices with salesperson before ordering.

AMATEUR ELECTRONIC SUPPLY® is not responsible for typographical errors or omissions.

Copyright © 2007 AMATEUR ELECTRONIC SUPPLY®

AOR - continued

unlocked models of AR-ONE/AR-5000/AR-8200/AR-8600 for official government use only. Mail or FAX purchase order to AES. Exports: inquire.

ARRL (ARR)

9779	2007 hardcover Radio Amateur's HB w/CD	\$ 59.95
9760	2007 softcover Radio Amateur's HB w/CD	44.95
5781	1970-74 QST on CD-ROM	39.95
5773	1975-79 QST on CD-ROM	39.95
5765	1980-84 QST on CD-ROM	39.95
5757	1985-89 QST on CD-ROM	39.95
5749	1990-94 QST on CD-ROM	39.95
8497	1995-99 QST on CD-ROM	39.95
9418	2000-04 QST on CD-ROM	39.95
5579	1995 ARRL Periodicals CD-ROM	19.95
6109	1996 ARRL Periodicals CD-ROM	19.95
6729	1997 ARRL Periodicals CD-ROM	19.95
7377	1998 ARRL Periodicals CD-ROM	19.95
7881	1999 ARRL Periodicals CD-ROM	19.95
8209	2000 ARRL Periodicals CD-ROM	19.95
8632	2001 ARRL Periodicals CD-ROM	19.95
8802	2002 ARRL Periodicals CD-ROM	19.95
9124	2003 ARRL Periodicals CD-ROM	19.95
9396	2004 ARRL Periodicals CD-ROM	19.95
9574	2005 ARRL Periodicals CD-ROM	19.95
9841	2006 ARRL Periodicals CD-ROM	19.95
0011	200 Meters & Down (early ham radio)	12.00
9055	AC Power Interference Handbook 2nd ed	29.95
9167	APRS Moving Hams on Radio & Internet	17.95
9450	Amateur Radio on the Move	19.95
9043	Antenna Book w/CD-ROM	44.95
0194	Antenna Compendium 1	10.00
2545	Antenna Compendium 2	14.00
5625	Antenna Compendium 5 w/software	20.00
7431	Antenna Compendium 6 w/software	22.95
8608	Antenna Compendium 7	24.95
9558	Basic Radio	29.95
9813	DXCC Countries List	5.95
6354	DXing on the Edge	29.95
9388	Emergency Communication Handbook	19.95
9531	Emergency Power for Radio Comms	19.95
8659	Extra Class License Manual	24.95
8888	Extra Q & A Manual	17.95
9205	General Class License Manual	19.95
9213	General Q & A Manual	15.95
9728	Getting Started with Ham Radio	19.95
9159	HF Digital Handbook 3rd edition	19.95
8268	Ham Radio FAQ	14.95
9639	Ham Radio License Manual (new ham)	24.95
8926	Hints and Kinks 16th edition	15.95
9361	Hints and Kinks 17th edition	17.95
8616	Image Communications Handbook	25.95
8314	Introduction to Morse Code CD's (2)	14.95
4920	Introduction to RF Design	39.95
1250	Log Book	7.95
9175	Low Power Communication 2nd edition	19.95
9744	Low Profile Amateur Radio 2nd edition	19.95
8977	Map of North America	15.00
9723	Marine Amateur Radio	12.95
7539	Minilog	4.95
9655	More QRP Power	19.95
7709	More Wire Antenna Classics	17.95
9795	More Vertical Antenna Classics	17.95
9140	ON4UN's Low Band DXing w/CD-ROM	39.95
9132	Operating Manual	29.95
9310	RF Amplifier Classics	19.95
6621	RF Exposure and You	22.95
9892	RFI Book 2nd edition	29.95
9906	2007/08 pocket size Repeater Directory	10.95
9914	2007/08 desktop edition Repeater Directory	15.95
7369	Satellite Anthology 5th edition	15.00
6583	Satellite Handbook	24.95

AES Price

ARRL - continued

8624	Simple and Fun Antennas for Hams	22.95
9825	Software Library for Hams, 2.0	19.95
9647	Technician Q & A Manual	15.95
2701	Transmitter Hunting	24.95
9930	07/08 TravelPlus for Repeaters CD-ROM	39.95
3983	Understanding Basic Electronics	29.95
9078	VHF/UHF Antenna Classics	14.95
5218	Vertical Antenna Classics	12.00
9183	Vintage Radio	19.95
9264	VolP and Amateur Radio	17.95
3657	W1FB's QRP Notebook	10.00
4483	Weather Satellite Handbook	20.00
7075	Wire Antenna Classics	14.00
5226	Radio Amateurs World Atlas	12.95
7717	World Azimuthal Map	15.00
2944	World Grid Locator Atlas	5.00
8804	World Robinson Map	15.00
8187	Yagi Antenna Classics	17.95

Alan Broadband (ALA)

Zap Checker/180	Transmitter/bug detector	\$ 99.99
185	Dlx analog/dig transmitter/bug detector	159.99

ALINCO (ALI)

DJ-C7T	300mw cc size 2m/440 HT/lith ion/spkr	\$169.99
EBP-58N	Extra lithium ion battery	41.99
EDH-32	Cigarette lighter cable	21.99
EME-18	Earphone	15.99
EME-24	Earphone/mic	43.99
EME-25	Curl cord earphone	16.99
EMS-60	Speaker/mic	46.99
ERW-4C	PC cable	43.99
ERW-7	USB PC cable	43.99
ESC-38	Soft case	16.99
EMS-50	Speaker/mic; DJ-C5T	Δ 19.99
DJ-196T	5w 2m FM HT	119.99
DJ-296T	5w 220 FM HT	149.99
DJ-496T	5w 440 FM HT	149.99
DJ-596T MK II	5w 2m/440 HT/NiMH	209.99
EBP-50N	9.6v 700mah 5w NiMH battery	26.99
EBP-51N	9.6v 1500mah 5w NiMH battery	41.99
EBP-56N	7.4v 1000mah lithium ion battery	54.99
EDC-111	Charger for EBP-56N	50.99
EDC-16B	Cigarette lighter cable w/filter	24.99
EDC-36	Angle plug power cable w/filter	27.99
EDC-37	13.8v power cable	8.99
EDC-43	Cig lighter cable	12.99
EDC-88	Quick charger; nicad battery packs	67.99
EDC-93	Extra wall charger	12.99
EDC-97	Quick charger; NiMH batt packs	Δ 70.99
EDC-133	Quick charger; NiMH batt packs	70.99
EDH-30	Dry cell battery case	17.99
EJ-43U	Digital board; original DJ-596T only	Δ 49.99
EJ-47U	Digital board; Mk II versions	199.99
EME-6	Earphone	12.99
EME-12	Headset w/earphone/mic/VOX	79.99
EME-13	Headset w/ear bud/mic/VOX	79.99
EME-15	Earphone/mic w/VOX	62.99
EME-20	Tie-pin mic & earphone	25.99
EMS-47	Sprk/mic w/volume control	27.99
ERW-4C	PC cable	43.99
ERW-7	USB PC cable	43.99
ESC-36	Soft case for EBP-48N	15.99
SW-596	Windows prog software; DJ-596T	35.99
DJ-V17T	5w 2m FM HT	129.99
DJ-V47T	5w 440 FM HT	149.99
EBP-63	7.4v 1100mah Li-Ion battery	57.99
EBP-64	7.4v 1600mah Li-Ion battery	61.99
EBP-65	7.2v 700mah NiMH battery	41.99
EBP-66	7.2v 2000mah NiMH battery	43.99
EDC-144	Rapid charger	76.99
EDH-34	Dry cell case	17.99

ADI (ADI)

MTG BKT	Mobile bracket; AR-147/247/447	Δ \$ 5.99
PROG-47	PC prog soft/cable; AR-147/247/447	Δ 14.99
SLC-22L	Leather case; PR-series	D 2.99

AES (AES)

SP-N	1.6kw 2.5GHz type N surge protector	... \$ 49.99
SP-U	1.6kw 600MHz UHF surge protector	... 49.99
AP	Replacement arc-plug for SP-N/SP-U	... 9.99

AIM (AIM)

24-7735P	Coax stripper; RG-58/59/62	... \$ 23.99
24-7736P	Coax stripper; RG-59/62/821	... 22.99
24-7739P	Coax stripper; RG-8/11/213	... 33.99
38-305	500ma 3/4.5/6/7.5/9/12vdc adapter	12.99
38-384	4A power supply, 5A surge	... 54.99

AOR (AOR)

AR-ONE*	Rcvr/restricted sales! special order	4499.99
AR-5000A+3B	10kHz-3GHz Rcvr/bldd spec order	2599.99
AR-5000A+3U*	Rcvr/restricted sales! spec order	2599.99
AR-5000AC*	Rcvr/restricted sales! special order	2749.99
AR-3000AB	1-2036MHz dlx w/SSB/cell bldd D	969.99
SDU-5500	Spectrum disp unit/PC interf D	799.99
SDU-5600	Spectrum disp unit/PC interf Δ	1199.99
AR-8600 Mk II-B	.53M-2.04G base Rcvr/cell bldd	899.99
AR-8600 Mk II-U*	Rcvr/restricted sales! spec order	899.99
SDU-5500	Spectrum disp unit/PC interf D	799.99
SDU-5600	Spectrum disp unit/PC interf Δ	1199.99
AR-8200 Mk III-B	.5M-3G hand/SSB/cell bldd	569.99
AR-8200 Mk III-U*	Rcvr/restricted sales! spec order	579.99
LC-8200	Leather case	24.99
SC-8200P	Soft case	13.99
LA-350	3-30MHz indoor active loop rcv ant D	279.99
350M	54-1.6MHz antenna element	Δ 49.99
ARD-9000	Digital SSB interface	D 269.99
ARD-9000 Mk 2	Digital SSB interface	359.99
ARD-9800	Digital SSB/SSTV interface	549.99
LA-380	.01-500MHz indoor active loop rcv ant	379.99

*United States & state government agencies or a political subdivision thereof and communications utility companies and their legal agents **ONLY** may purchase

Alinco - continued

AES Price

EDS-10	Mic/speaker cable	14.99
EDS-11	Clone cable	14.99
EMS-62	Speaker/mic	41.99
ERW-4C	PC cable	43.99
ERW-7	USB PC cable	43.99
ESC-41	Soft case	15.99
DJ-V57H	5w 2m/440 FM HT	209.99
EBP-46N	9.6v 600mah 5w nicad battery	71.99
EDC-16B	Cigarette lighter cable w/filter	24.99
EDC-36	Angle plug power cable w/filter	27.99
EDC-37	13.8v power cable	8.99
EDC-43	Cig lighter cable	12.99
EDH-29	Dry cell case for 4-AA's	14.99
EME-6	Earphone	12.99
EME-12	Headset w/earphone/mic/VOX	79.99
EME-13	Headset w/ear bud/mic/VOX	79.99
EME-15	Earphone/mic w/VOX	62.99
EME-20	Tie-pin mic & earphone	25.99
EMS-82	Remote speaker/mic	34.99
EMS-47	Spkr/mic w/volume control	27.99
ESC-35	Soft case for EBP-45N/46N	15.99
DJ-S11T	340mw 2m FM HT/battery holder	79.99
EDC-78	Wall charger; (not for alkalines)	8.99
EDH-18	12v to 5.5v DC/DC conv/cig plug D	24.99
EME-6	Earphone	12.99
EME-12	Headset w/earphone/mic/VOX	79.99
EME-13	Headset w/ear bud/mic/VOX	79.99
EME-15	Earphone/mic w/VOX	62.99
EME-20	Tie-pin mic & earphone	25.99
EMS-47	Spkr/mic w/volume control	27.99
ESC-27	Soft case	18.99
DJ-S40T	500mw 440 FM HT/battery holder	89.99
EBP-52N	3.6v 500mah NiMH battery	41.99
EBP-53N	6v 500mah NiMH battery	50.99
EBP-54N	3.6v 1500mah NiMH battery	54.99
EDC-37	13.8v power cable	8.99
EDC-43	Cig lighter cable	12.99
EDC-105	Drop-in NiMH battery cgr, less ps	27.99
EDC-93	Wall ps for EDC-105	12.99
EDH-31	Dry cell battery case	14.99
EME-6	Earphone	12.99
EME-12	Headset w/earphone/mic/VOX	79.99
EME-13	Headset w/ear bud/mic/VOX	79.99
EME-15	Earphone/mic w/VOX	62.99
EME-20	Tie-pin mic & earphone	25.99
EMS-82	Remote speaker/mic	34.99
EMS-47	Spkr/mic w/volume control	27.99
ESC-37	Soft case	15.99
DJ-S45T	1w 440 FM HT w/alkaline case	119.99
EME-6	Earphone	12.99
ERW-4C	PC cable	43.99
ERW-7	USB PC cable	43.99
ESC-40	Soft case	17.99
EDH-27	Dry cell case w/charger; DJ-X2T	4.99
EDH-28	DC/DC converter w/cig plug; DJ-X2T	4.99
DJ-X3T	1MHz-1.3GHz AM/FM hand Rcvr/cell blkd	159.99
EBP-52S	3.6v 500mah NiMH battery	41.99
EDC-105	Drop-in NiMH battery cgr, less ps	27.99
EDC-93	Wall ps for EDC-105	12.99
EDH-31S	Dry cell battery case	14.99
ERW-4C	PC cable	43.99
ERW-7	USB PC cable	43.99
ESC-37	Soft case	15.99
DJ-X7T	1MHz-1.3GHz AM/FM hand Rcvr/cell blkd	169.99
EBP-58N	Extra lithium ion battery	41.99
EDH-32	Cigarette lighter cable	21.99
EME-18	Earphone	15.99
EME-25	Coil cord earphone	16.99
ERW-4C	PC cable	43.99
ERW-7	USB PC cable	43.99
ESC-38	Soft case	16.99

Alinco - continued

AES Price

DJ-X30T	1-1299MHz receiver/cell blocked	199.99
EDS-12	Remote controller cable	42.99
EME-6	Earphone	12.99
ERW-4C	PC cable	43.99
ERW-7	USB PC cable	43.99
DJ-X2000T	1-2149MHz receiver/cell blocked	499.99
EBP-34N	4.8v 1200mah nicad battery	69.99
EBP-37N	4.8v 700mah nicad battery	38.99
EDC-16B	Cigarette lighter cable w/filter	24.99
EDC-36	Angle plug power cable w/filter	27.99
EDC-37	13.8v power cable	8.99
EDC-43	Cig lighter cable	12.99
EDC-88	Quick charger; nicad battery packs	67.99
EDH-16	Dry cell battery case	14.99
EME-6	Earphone	12.99
ERW-4C	PC cable	43.99
ERW-7	USB PC cable	43.99
ESC-28	Soft case for EBP-33N	4.99
ESC-29	Soft case for EBP-37N	15.99
ESC-30	Soft case for EBP-34N	8.99
DR-M06TH	20w 6m FM Xcvr/encoder	259.99
MB-130	Extra mobile bracket	21.99
HK-130	Hardware kit for MB-130	4.99
PC-15B	Extra DC cable	12.99
DR-135T Mk II	Black 50w 2m FM Xcvr	169.99
DR-135T Mk III	Black 50w 2m FM Xcvr	169.99
DR-235T	Black 25w 220 FM Xcvr	249.99
DR-235T Mk III	Black 25w 220 FM Xcvr	249.99
DR-435T Mk II	Black 35w 440 FM Xcvr	269.99
DR-435T Mk III	Black 35w 440 FM Xcvr	269.99
EDC-37	13.8v power cable; ignition on/off	8.99
EDC-43	Cig lighter cable; ignition on/off	12.99
EJ-41U	1200/9600 TNC unit	139.99
EJ-47U	Digital board; Mk II/III	199.99
ERW-4C	PC cable	43.99
ERW-7	USB PC cable	43.99
MB-130	Extra mobile bracket	21.99
HK-130	Hardware kit for MB-130	4.99
PC-15B	Extra DC cable	12.99
SW-620	Windows programming software	35.99
DR-135TP Mk II	Blk 50w 2m FM/9600 TNC D	269.99
DR-135TP Mk III	Blk 50w 2m FM/9600 TNC	269.99
EDC-37	13.8v power cable; ignition on/off	8.99
EDC-43	Cig lighter cable; ignition on/off	12.99
EJ-47U	Digital board; Mk II/III versions	199.99
ERW-4C	PC cable	43.99
ERW-7	USB PC cable	43.99
MB-130	Extra mobile bracket	21.99
HK-130	Hardware kit for MB-130	4.99
PC-15B	Extra DC cable	12.99
SW-620	Windows programming software	35.99
EDS-8	Adapter; EMS-14 w/DR-140/605TQ	9.99
DR-620T	50/35w 2m/440 FM Xcvr	339.99
DR-635T	50/35w 2m/440 FM Xcvr	369.99
EDS-9	Separation kit	50.99
EJ-47U	Digital board for DR-620T	199.99
EJ-50U	TNC unit for DR-620T	139.99
ERW-4C	PC cable	43.99
ERW-7	USB PC cable	43.99
MB-130	Extra mobile bracket	21.99
HK-130	Hardware kit for MB-130	4.99
PC-15B	Extra DC cable	12.99
SW-620	Windows programming software	35.99
EDS-8	Adapter; EMS-14 w/DR-140/605TQ	9.99
DR-70TH	Comp HF Xcvr/100w 6m/mob bkt	749.99
DM-330MVT	30A switching ps/meter/32A surge	179.99
DM-340MVT	30A ps w/meters/35A surge	199.99
EBG-8	Front control hand bracket	17.99
EBG-9	Extra mobile bracket	36.99
EDS-5	5' microphone extension cable	40.99
EDS-6	15' remote cable	75.99
EDX-2	160-10m 200w wire auto tuner	319.99

Alinco - continued

AES Price

EMS-14	Desk top microphone	126.99
PC-25	Extra DC cable	39.99
DX-77T	160-10m HF Xcvr	699.99
DM-330MVT	30A switching ps/meter/32A surge	179.99
DM-340MVT	30A ps w/meters/35A surge	199.99
EDS-5	5' microphone extension cable	40.99
EDS-12	160-10m 200w wire auto tuner	319.99
EMS-14	Desk top microphone	126.99
PC-25	Extra DC cable	39.99

ALPHA DELTA (ALP)

ATT-3G50	200w 3GHz type N surge protector	\$ 59.99
ATT-3G50-HP	2kw 3GHz type N surge protector	59.99
ATT-3G50U	200w 500MHz UHF surge protector	49.99
ATT-3G50U-HP	2kw 500MHz UHF surge protector	49.99
ATT/3G50	Extra 200w arc-plug cartridge	14.99
ATT-HP/3G50HP	Extra 2kw arc-plug cart	14.99
Delta-2B	500 MHz 2-pos coax switch/protector	59.99
Delta-2/N	1.3 GHz 2-pos N switch/protector D	64.99
Delta-2B/N	1.3 GHz 2-pos N switch/protector	75.99
Delta-4B	500 MHz 4-pos coax switch/protector	89.99
Delta-4/N	1.3 GHz 4-pos N switch/protector D	89.99
Delta-4B/N	1.3 GHz 4-pos N switch/protector	99.99
D-4	Extra arc-plug; Delta-2/N/4/N	9.99
Delta-C	Kit w/ctr ins/2 end ins/static protect	29.99
SEP	Extra arc-plug cart; DX-Ultra/Delta-C	15.99
Delta-CIN	Antenna end insulator	1.99
DX-80	80m 13' complete dipole antenna	70.99
DX-40	40m 67' complete dipole antenna	70.99
DX-40/20	40/20m 40' low profile dipole ant	79.99
DX-20	20m 34' complete dipole antenna	70.99
DX-A	160-80-40m twin sloper antenna	100.99
DX-B	160-80-40-30m 60' sloper ant	110.99
DX-CC	80-10m 5-band 82' no trap, no tuner dipole	160.99
DX-DD	80/40m 82' Delta Dipole antenna	130.99
DX-EE	40-10m 4-band 40' no trap, no tuner dipole	140.99
DX-LB	160-80-40m 100' shortened dipole	160.99
DX-LB Plus	160/80/40/20/15/10m 100' short dip	190.99
DX-SWL	AM broadcast-13m 60' SWL sloper ant	120.99
DX-Ultra	AM broadcast-30MHz 80' SWL dipole	160.99
SEP	Extra arc-plug cart; DX-Ultra/Delta-C	15.99
Pathfinder	1.8-30MHz+6m dig auto ant tuner	199.99

AMECO (AME)

CODE COURSES - CASSETTE TAPES

100-T	Junior code tape, 0-7 1/2 wpm	\$ 3.99
CODE PRACTICE OSCILLATORS & CODE KEYS		
K-1	Bakelite type key	\$ 10.95
K-4R	Brass type key	17.95
OCM-2K	Code oscillator & CW monitor kit	19.99
OCM-2W	Wired oscillator & CW monitor	29.99

PREAMPLIFIERS

TPA	HF receive preamp & indoor active ant	\$ 79.99
P-9T	Power supply for TPA	9.99
PT-3	2-54 MHz transceiver preamp	139.99
P-12T	Power supply for PT-3	9.99

FILTERS

HP-75T	75 ohm high-pass filter	\$ 14.99
HP-300T	300 ohm high-pass filter	9.99

AMERITRON (AMR)

AL-80B	1kw PEP out linear amp (3-500Z)	1299.99
AL-82	1.5kw PEP out linear amp (2.3-500Zs)	2299.99
AL-572	1.3kw PEP out linear amp (4 572Bs)	1399.99
AL-800	1250w PEP out linear (3CX800A7)	1699.99
AL-800H	1.5kw PEP out amp (2 3CX800A7)	2499.99
AL-811	600w PEP out linear amp (3 811As)	669.99
AL-811H	800w PEP out linear amp (4 811As)	799.99
AL-1200	1.5kw PEP out linear (3CX-1200A7)	2349.99
AL-1500	1.5kw out linear amplifier (8877)	2699.99
ALS-500M	500w PEP out solid state mob amp	749.99
ALS-500RC	Remote head; sn 13049 & up	49.99

Ameritron - continued AES Price

SPS-75	75A switching power supply w/fan	359.99
ALS-600	600w PEP out solid state amp w/ps	1129.99
ALS-600S	600w PEP out solid state amp/switching ps	1249.99
ARB-704	Amplifier Xcvt interface buffer	59.99
PNP-5M	Plug & play cable; FT-847	17.99
PNP-7D	Plug & play cable; TS-570S/870S/2000	17.99
PNP-8D	Plug & play cable; FT-920/1000 series	17.99
PNP-8M	Plug & play cbl; FT-817/840/857/897	17.99
PNP-8MK	Plug & play cable; TS-480	17.99
PNP-13D	Plug & play cable; IC-706/7000	17.99
PNP-35	Plug & play cable; FT-100 series	17.99
ARB-70412	Amp Xcvt interface/cbl; IC-706/7000	59.99
ATP-100	Amplifier tuning pulser	59.99
ATR-102	Deluxe amplifier tuning pulser	69.99
ATR-20	1.2kw PEP antenna tuner	429.99
ATR-30	3kw PEP antenna tuner	559.99
ADL-1500	1.5kw dummy load with oil	74.99
ADL-2500	2.5kw dummy load with fan	199.99
ICP-120	120v inrush protector	79.99
ICP-240	240v inrush protector	79.99
AWM-30	3kw PEP SWR/wattmeter/rem sens	149.99
AWM-35	3kw PEP mobile SWR/wattmeter	159.99
QSK-5	Stand alone T/R switch	339.99
QSK-5PC	PC board kit; T/R switch	259.99
CF-5	Cooling fan for QSK-5	39.99
RCS-4	4-pos wireless remote coax switch	139.99
RCS-8V	160-2m 5-pos remote coax switch	149.99
RCS-8VN	160-2m 5-pos N rem coax switch	159.99
Note:	RCS-8VN requires 8-wire control cable.	
RCS-10	DC-100MHz 8-pos remote coax switch	169.99
Note:	RCS-10 requires 4-wire control cable.	

ANTENEX (ANX)

AB-FT	118-896MHz ¼ wave NMO whip	\$ 16.99
AB-SCANC	VHF/UHF/800MHz NMO mob scan ant	29.99
BB-1442N	144-174 2.4db no gnd plane NMO mob	39.99
BB-1443	144-174MHz 3db 49" NMO mobile	39.99
BB-4303	430-450 3db 11¼" NMO mobile	34.99
CB-144/440C	2m/440 2.5db 36" NMO mobile	49.99
CWB-1443	Self-tuning 144-156 3db NMO mob	49.99
CWB-4405C	Self-tuning 440-470 5db NMO mob	49.99
FG-1440/FM-2	2m 32" 7g unity gain N base w/mt	149.99
FG-1440/FM-2	2m 107" 7g 3db N base ant w/mt	229.99
FG-4403/FM-2	440-450 44" 7g 3db N base w/mt	179.99
FG-4403/FM-2	440-450 76" 7g 5db N base w/mt	229.99
GB-8PST1	NMO mag mt w/coax & teflon PL259	29.99
LBMB-9034	Mirror mt ¾" hole L-bracket	10.99
MB-8PST	NMO hole mt w/coax & teflon PL259	15.99
TM8-PST	Chrome NMO mini trunk mt/coax/PL259	29.99
TRABT-1420	142-164 Phantom whipless NMO	59.99
TRAB-4303	430-450 3db Phantom whipless NMO	29.99
VTPM	NMO mt/up to 1" thick plate (UHF barrel)	15.99
Y-1363	136-150MHz 3el 7.1db gold N beam	119.99
Y-1365	136-150MHz 5el 9.2db gold N beam	169.99
Y-4303	430-450 3el 7.1db gold welded N beam	99.99
Y-4305	430-450 5el 9.2db gold welded N beam	129.99

Antenna Specialists (ASP)

APR143	2m 23" on glass cell look-alike ant	\$ 74.99
APS151	2m 3db 33" on glass antenna	69.99
KAV-353	On glass replacement mtg kit	13.99

Antenna Supermarket (ANT)

Eavesdropper*	60-11m trap dipole SWL ant	\$ 89.99
---------------	----------------------------	----------

*Specify S0-239 or twin-lead

ARROW Antenna (ARA)

146/437-10	3 el 2m/7 el 440 hand held beam	\$ 73.00
146/437-10BP	3el 2m/7el 440 HH split bm beam	79.00
10w duplexer	(installs in boom) w/BNC	59.00
10w duplexer	(installs in boom) w/SMA	64.00
OSJ-146/440	2m/440 57.5" J-pole antenna	39.00

AES Price

ARTSCI (ART)

Lost Users Manuals	\$ 19.95
Repeater Mapbook 12th edition	14.99

ASTRON (ASR)

RS-4L	3A ps, 4A surge, w/cig lighter socket	\$ 49.99
RS-7A	5A power supply, 7A surge	59.99
RS-10A	7.5A power supply, 10A surge	69.99
RS-12A	9A power supply, 12A surge	79.99
RS-12S	9A ps, 12A surge, w/speaker	89.99
RS-20A	16A power supply, 20A surge	99.99
RS-35A	25A power supply, 35A surge	149.99
RS-35A/220V	220v 25A ps, 35A surge	149.99
RS-50A	37A power supply, 50A surge	219.99
RS-70A	57A power supply, 70A surge	279.99
RS-20M	16A ps w/meters, 20A surge	119.99
RS-35M	25A ps w/meters, 35A surge	169.99
RS-50M	37A ps w/meters, 50A surge	239.99
RS-70M	57A ps w/meters, 70A surge	299.99
VS-20ML	Variable 16A ps/meters, 20A surge	139.99
VS-35M	Variable 25A ps/meters, 35A surge	199.99
VS-50M	Variable 37A ps/meters, 50A surge	259.99
RM-35M	25A rack mt ps/meters, 35A surge	259.99
RM-50M	37A rack mt ps/meters, 50A surge	299.99
RM-60M	50A rack mt ps/meters, 55A surge	389.99
SS-25	20A switching ps, 25A surge	119.99
SS-25M	20A switching ps/meters, 25A surge	139.99
SS-30	25A switching ps, 30A surge	129.99
SS-30M	25A switching ps/meters, 30A surge	149.99
N2412-12	10A 22-32vdc to 13.8vdc converter	59.99
N2412-24	20A 22-32vdc to 13.8vdc converter	89.99

AvMap (AVM)

G-4T	Geosat 4 GPS w/TMD7/TMD700A cable	\$ 749.99
------	-----------------------------------	-----------

BMI (BMI)

972AD	14" 12/24-hour wall clock	\$ 32.99
973A	12" 24-hour wall clock	49.99

B & W (B&W)

AC-1.8-30	Continuous 1.8-30 MHz vee ant	\$ 279.99
AP-10B	51" portable 40/20/15/10/6/2m ant	89.99
BWD-20	14-30 MHz 20' folded dipole	269.99
BWD-45	7-30 MHz 45' folded dipole	269.99
BWD-65	4-30 MHz 65' folded dipole	279.99
BWD-90	1.8-30 MHz 90' folded dipole	279.99
FDMK	Mtg kit; folded dipole w/3 pole installation	45.99

BELDEN (BEL)

52 OHM COAXIAL CABLE

8216	RG-174 (sub-miniature)	per ft. \$.41
8216	.....	100 ft. Roll 39.99
8216	.....	500 ft. Roll 139.99
8216	.....	1000 ft. Roll 259.99
8240	RG-58U (solid center)	per ft. .43
8240	.....	100 ft. Roll 41.99
8240	.....	500 ft. Roll 149.99
8240	.....	1000 ft. Roll 279.99
8259	RG-58AU (stranded center)	per ft. .47
8259	.....	100 ft. Roll 45.99
8259	.....	500 ft. Roll 154.99
8259	.....	1000 ft. Roll 279.99
8219	RG-58AU (stranded, foam)	per ft. .45
8219	.....	100 ft. cut 43.99
8219	.....	500 ft. Roll 164.99
8219	.....	1000 ft. Roll 299.99
8262	RG-58CU (non-contaminating)	per ft. .49
8262	.....	100 ft. cut 46.99
8262	.....	500 ft. Roll 199.99
8262	.....	1000 ft. Roll 374.99

Belden - continued AES Price

9258	RG-8X (stranded, foam)	per ft. .54
9258	.....	100 ft. cut 49.99
9258	.....	500 ft. Roll 189.99
9258	.....	1000 ft. Roll 354.99
8237	RG-8U	per ft. .94
8237	.....	100 ft. Roll 89.99
8237	.....	500 ft. Roll 349.99
8214	RG-8U (foam)	per ft. .89
8214	.....	100 ft. Roll 84.99
8214	.....	500 ft. Roll 399.99
8214	.....	1000 ft. Roll 759.99
9913	RG-8U (low loss)	100 ft. Roll 89.99
9913	.....	250 ft. Roll 189.99
9913	.....	500 ft. Roll 354.99
9913F7	RG-8U (low loss, flexible)	per ft. 1.19
9913F7	.....	100 ft. Roll 114.99
9913F7	.....	250 ft. Roll 234.99
9913F7	.....	500 ft. Roll 419.99
8267	RG-213 (non-contaminating)	per ft. 1.24
8267	.....	100 ft. cut 119.99
8267	.....	500 ft. Roll 529.99

75 OHM COAXIAL CABLE

8241	RG-59U (75 ohm, solid center)	per ft. \$.47
8241	.....	100 ft. Roll 44.99
8241	.....	500 ft. Roll 139.99
8241	.....	1000 ft. Roll 264.99
9248	RG-6U (75 ohm, solid center)	per ft. .52
9248	.....	1000 ft. Roll 374.99
8238	RG-11 (75 ohm, stranded center)	per ft. 1.29
8238	.....	100 ft. cut 119.99
8238	.....	500 ft. Roll 489.99
8213	RG-11 (75 ohm, solid, foam)	per ft. 1.26
8213	.....	100 ft. cut 116.99
8213	.....	500 ft. Roll 464.99

ROTOR CABLE

8484	4-wire; 4-20 gauge	per ft. \$.47
8484	.....	100 ft. cut 41.99
8484	.....	500 ft. Roll 189.99
8484	.....	1000 ft. Roll 359.99
8448	8-wire; 2-18, 6-22 gauge	per ft. .52
8448	.....	100 ft. cut 47.99
8448	.....	500 ft. Roll 199.99
8448	.....	1000 ft. Roll 384.99
9405	8-wire; 2-16, 6-18 gauge	per ft. 1.14
9405	.....	100 ft. cut 109.99
9405	.....	500 ft. Roll 469.99
9405	.....	1000 ft. Roll 884.99

COPPERWELD ANTENNA WIRE

8000	No. 14 stranded antenna wire	per ft. \$.50
8000	.....	100 ft. Roll 43.99
8000	.....	1000 ft. Roll 339.99

No. 8 ALUMINUM GROUND WIRE

8018	Multiples of 50 ft.	each \$ 26.99
------	---------------------	---------------

Note: All above roll pricing is for rolls as shown only; all other lengths, even if more than roll length shown or a multiple of roll length shown, are sold at the per ft. price.

FOAM COAX w/PL-259s ON BOTH ENDS

9354	50' RG-8U foam	\$ 96.99
9355	75' RG-8U foam	126.99
9356	100' RG-8U foam	146.99

BENCHER (BEN)

BY-1	Iambic keyer paddle w/black base	\$ 114.99
BY-2	Iambic keyer paddle w/chrome base	139.99
BY-3	Iambic keyer paddle, gold plated	299.99
BY-4	Iambic paddle/blk base/gold components	179.99
170-82	Mercury paddle	drop ship 449.99

Benchner - continued		AES Price
ST-1	Single lever keyer paddle, black base	119.99
ST-2	Sgl lever kyr paddle, chrome base	144.99
RI-1	Dlx hand key w/navy knob/black base	110.99
RI-2	Dlx hand key w/navy knob/chrome base	135.99
YA-1	1kw low pass filter	90.99

BETTER RF (BET)		
706 Tune Control for IC-706 series/IC-718		\$ 32.99
I-Mate Msg acc; 746PRO/756PRO IV/III/7800		74.99
Yae Tune Control for FT-100/857/897 series		44.99

Bounty Hunter (BOU)		
Fast Tracker	Metal detector/2-tone target ID	\$ 99.99
Tracker IV	Metal detector/3-mode	129.99
Quick Draw II	Metal detector/full motion	229.99
Sharp Shooter II	Metal detector/LCD readout	299.99
Land Star	Metal detector/3-tone audio discrim	349.99
Land Ranger	Metal detector/programmable	449.99
Time Ranger	Metal detector/top-of-the-line	549.99
Carry Bag	For Bounty Hunter metal detectors	29.99
10" Coil	10" magnum coil; adds depth	49.99

BUCKMASTER (BUC)		
HamCall	CD-ROM ham listings	\$ 50.99
OCF	6-band 300w 135' off-center-fed dipole	175.99

BUSHNELL (BUS)		
10-1911	Velocity sports speed gun	\$ 99.99
13-0430	4x30 LiteVision compact binoculars	6.99
13-1250	12x50 wide angle Powerview binocs	37.99
13-3410	7x35 Falcon binoculars	16.99
78-0101	125" 9mm Kellner eye; 0040/6000/8000	19.99
78-0200	4.5" reflector telescope	249.99
78-2010	4.5" reflector telescope	129.99

BUTTERNUT (BUT)		
Skyhawk 3X10	Triband 10 el, 24' beam w/baun *	1149.99
*Skyhawk 3X10 is drop-shipped (shipped direct to you from the Butternut factory). On factory drop-shipsments we prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your drop-shipped merchandise. Shipment is FOB Wood Dale, Illinois via UPS. COD for freight charges only. Freight charges will be collected upon delivery by the carrier. Please allow sufficient time for delivery on this special order item.		
HF-6VX	80/40/30/20/15/10m 26' vert ant	389.99
HF-9VX	80/40/30/20/17/15/12/10/6m 26' vert	449.99
A17-12	17 & 12m kit for HF-6VX	66.99
CPK	Counterpoise kit	169.99
MPS	Mounting post sleeve	14.99
RMK-II	Roof mounting kit w/radials	189.99
STR-II	Radial kit only	144.99
TBR-160S	160m resonator	159.99
HF-2V	80/40m 32' vertical	299.99
TBR-160S	160m resonator	159.99

CQ (CQX)		
Building and Using Baluns and Ununs		\$ 19.99
HR Anthology - Homebrewing Techniques		19.99
W6SAI HF Antenna Handbook		19.99

CSS (CSS)		
Pacterm for Windows Software; Kan TNCs		\$ 99.99
PKTerm for Windows Software; PK-12/96/232		99.99

CABLE X-PERTS (CAB)		
CXP1318FX	CXP1318FX (low loss, flexible) per ft.	\$.99
CXP1318FX	500 ft. Roll	449.99

CXP1318FC-3	3' CXP1318FX/silver teflon PL259s	20.99
CXP1318FC-50	50' CXP1318FX/silver teflon PL259s	63.99
CXP1318FC-75	75' CXP1318FX/silver teflon PL259s	97.99
CXP1318FC-100	100' CXP1318FX/silver teflon PL259s	126.99
CXP1318FC-150	150' CXP1318FX/silver teflon PL259s	176.99

Cbl X-perts - continued		AES Price
CXP1318FN-3	3' CXP1318FX/type N males	27.99
CXP1318FN-75	75' CXP1318FX/type N males	99.99
CXP1318FN-100	100' CXP1318FX/type N males	132.99
CXP1318FN-125	125' CXP1318FX/type N males	159.99
CXP008C-3	3' RG8 foam/silver teflon PL259s	20.99
CXP008C-6	6' RG8 foam/silver teflon PL259s	23.99
CXP008C-25	25' RG8 foam/silver teflon PL259s	35.99
CXP008C-50	50' RG8 foam/silver teflon PL259s	52.99
CXP008C-75	75' RG8 foam/silver teflon PL259s	69.99
CXP008C-100	100' RG8 foam/silver teflon PL259s	93.99
CXP008C-125	125' RG8 foam/silver teflon PL259s	109.99
CXP213C-6	6' RG213/silver teflon PL259s	24.99
CXP213C-15	15' RG213/silver teflon PL259s	34.99
CXP213C-25	25' RG213/silver teflon PL259s	44.99
CXP213C-50	50' RG213/silver teflon PL259s	68.99
CXP213C-75	75' RG213/silver teflon PL259s	91.99
CXP213C-100	100' RG213/silver teflon PL259s	117.99
CXP08XC-18IN	18' RG8X/silver teflon PL259s	12.99
CXP08XC-3	3' RG8X/silver teflon PL259s	15.99
CXP08XC-6	6' RG8X/silver teflon PL259s	17.99
CXP08XC-12	12' RG8X/silver teflon PL259s	21.99
CXP08XC-25	25' RG8X/silver teflon PL259s	24.99
CXP08XC-50	50' RG8X/silver teflon PL259s	34.99
CXP08XC-75	75' RG8X/silver teflon PL259s	44.99
CXP08XC-100	100' RG8X/silver teflon PL259s	54.99
6633S	Type N male plug	6.99
CXP058ARBP-3	3' RG58/BNC male - PL-259	19.99
CXP058ARBS-3	3' RG58/BNC male - SO-239	28.99
CXP142SBJ-3	3' RG142/SMA male - BNC female	27.99
CXP08XC-3	3' RG8X/male BNCs	25.99
CXP08XC-6	6' RG8X/male BNCs	27.99
CXP16RSO-3	3' RG316/SMA male - SO-239 D	22.99

235	1" tinned copper ground braid	1.35
235	100 ft. Roll	117.99
2332	1/2" tinned copper ground braid	.84
2332	100 ft. Roll	66.99
AZ-10	10ga red/black DC power cord per ft.	1.15
AZ-10	100 ft. Roll	101.99
AZ-12	12ga red/black DC power cord per ft.	1.10
AZ-12	100 ft. Roll	95.99

CAT Comm (CAT)		
NVSCAN-1	Southern NV Radio Scanning Directory	\$ 15.99

CELESTRON (CEL)		
22082	NexStar 80GT telescope	\$ 279.99
302160	Soft case for Nexstar 60/80	39.99
52211	60mm wildlife zoom spotting scope/tripod	99.99
93353	1.25" 18mm Ultima lens	59.99
93497	Standard tripod	79.99
93507	1.25" 2x deluxe Barlow lens	29.99
93700	CD-ROM "The Sky for Celestron"	14.99
94126-A	Model A LPR filter; for 1 1/4" eyepieces	39.99

Channel Master (CHA)		
9521A	Prog light duty rotor/LR rem cont/3-wire	\$ 99.99

CLOCKS		
BMI 972AD	14" 12/24-hour wall clock	\$ 27.99
BMI 973A	12" 24-hour wall clock	49.99
MFJ 105C	24-hour quartz wall clock	24.99
MFJ 107B	24-hour digital clock	12.99
MFJ 108B	24/12-hour dual disp digital clock	21.99
MFJ 112B	Deluxe world map clock	29.99
MFJ 113	24/12-hr 1.8" LED clock/batt back-up	19.99
MFJ 118	Giant 24/12 hour LCD clock	29.99
MFJ 123	Eternity solar atomic clock	79.99
MFJ 125	Calendar 24-hour analog wall clock	34.99

COAX SEAL (UNV)		
104	1/2" x 60' coax seal	\$ 3.99

Coaxial Dynamics (COA)		AES Price
81000-A	Wattmeter w/SO-239s	\$289.99
83000-A	Peak reading wattmeter w/SO-239s	413.99
82004	50w 2-30MHz element	91.99
82005	100w 2-30MHz element	91.99
82006	250w 2-30MHz element	91.99
82007	500w 2-30MHz element	91.99
82008	1000w 2-30MHz element	91.99
82009	2500w 2-30MHz element	131.99
82010	5000w 2-30MHz element	131.99
82013	10w 25-60MHz element	75.99
82014	25w 25-60MHz element	75.99
82015	50w 25-60MHz element	75.99
82016	100w 25-60MHz element	75.99
82029	10w 100-250MHz element	75.99
82031	50w 100-250MHz element	75.99
82033	250w 100-250MHz element	75.99
82046	10w 400-1000MHz element	75.99
82048	50w 400-1000MHz element	75.99
82049	100w 400-1000MHz element	75.99
88000	N female quick match connector each	13.99
88800	Carrying case for meter	72.99

COBRA (COB)		
19DX IV	AM Mobile CB	\$ 49.99
20XTR	AM Mobile CB w/neon magnetic ant D	69.99
25LTD	(25LTD Classic) AM Mobile CB	89.99
25XNWX ST	Night Watch Sound Tracker AM/Mob CB/WX	109.99
29LTD	(29LTD Classic) AM Mobile CB	99.99
29NWX	Night Watch AM Mobile CB	119.99
29XNWX ST	Night Watch Sound Tracker AM/Mob CB/WX	129.99
75WXT ST	Sound Tracker AM Mobile CB w/WX	99.99
1486TL	SSB/AM Mobile CB	149.99
HH-Road Trip	Sound Tracker HH CB/WX/mag ant	79.99
HGA-1000	Magnet mt CB antenna	19.99
HGM-77	Noise canx/amplified mobile mic	24.99

COMET (CMT)		
SWR/POWER METER		
CMX-1	1.8-60MHz 2kw remote SWR/pwr meter	\$169.99
EKS-3	Optional 10' extension cable for CMX-1	28.99

MOBILE ANTENNAS		
B-10	2m/440 2.15db 12" cell look-alike ant	\$ 42.99
B-10NMO	2m/440 2.15db 12" cell look-alike NMO	42.99
C-757NMO	2m/440 2.15/5.5db 38" foldover NMO D	49.99
CA-2X4SR	2m/440 3.8/6.2db 40" mob ant	69.99
CSB-750A	2m/440 3.6/6.1db 42" foldover ant	72.99
CSB-770A	2m/440 4.4/6.9db 51" foldover ant	89.99
CSB-790A	2m/440 5.1/7.7db 62" foldover ant	115.99
HA-050	6m 33" 1/4 wave mobile antenna	34.99
HP-32FHN	2m/440 3/5.5db 34" 350/250w ant	89.99
M-24B	2m/440 1.7/4.1db mag mt ant w/BNC	39.99
M-24M	2m/440 1.7/4.1db mag mt ant w/PL259	39.99
M-24S	2m/440 1.7/4.1db mag mt ant w/SMA	39.99
SB8-1	2m/440 1.5/2.15db 16" flex mobile	42.99
SB8-1NMO	2m/440 1.5/2.15db 16" flex NMO	42.99
SB8-2	2m/440 2.15/3.8db 18" black mobile	42.99
SB8-2NMO	2m/440 2.15/3.8db 18" blk NMO	42.99
SB8-5	2m/440 2.5/5.5db 39" black mobile ant	58.99
SB8-5NMO	2m/440 2.5/5.5db 39" black NMO	58.99
SB8-7	2m/440 4.5/7.2db 58" black mob ant	79.99
SB8-7NMO	2m/440 4.5/7.2db 58" black NMO	79.99
SB-14	6m/2m/440 43" chrome mobile ant	67.99
SB-15	6m/2m/440 2.15/4.5/7.2db 58" chr mob	84.99
SB8-25	2m 4.1db black mobile antenna	48.99
SB8-25NMO	2m 4.1db black NMO mob ant	48.99
SB-97	2m/440/1.2 3.6/8.9.6db 39" type N	84.99
SB-123	1.2GHz 7.2db 24" type N mobile ant	54.99
SB8-224	2m/220/440 2.15/3.2/6db blk mob	78.99
SB8-224NMO	2m/220/440 2.15/3.2/6db blk NMO	78.99
SF-245	2.4 GHz 7db 18" ft type N ant	39.99

Comet - continued AES Price

SF-245SPRR 2.4GHz 7db 18" fg N ant/spring	59.99
UHV-4 10/6/2/440 55" mobile ant; FT8900R	109.99
UHV-6 40/15/10/6/2m/440 78" mobile ant	159.99
L-3.5 80m loading coil for UHV-6	34.99
L-14 20m loading coil for UHV-6/CA-HV	29.99
L-18 17m loading coil for UHV-6/CA-HV	29.99

MOBILE MOUNTS

3D4M Mobile mt, 13' coax w/UHF connectors	\$ 26.99
3D4N Mobile mt, 13' coax w/type N	26.99
3D5M Mobile mt, 16.5' coax w/UHF connectors	28.99
5D4N Roof mount, 13' coax w/type N	34.99
AD-10N NMO mount to female N adapter	17.99
AD-15M NMO mount to SO-239 adapter	17.99
AD-25M SO-239 to NMO mount adapter	14.99
AD-35M ¾-24 stud to UHF mobile mt adapter	17.99
CK-3-3/8-24 Dlx 2-step 16.5' cbl/3/8-24/UHF	42.99
CK-3M Dlx 2-step 10' cable w/UHF connectors	35.99
CK-3M5 Dlx 2-step 16.5' cable w/UHF connectors	42.99
CK-3NMO Dlx 2-step 16.5' cable w/NMO/UHF	42.99
CK-5N Dlx 13' cable assembly w/type N	49.99
CM-5M Hvy duty mag mt, coax, max 4" ant	24.99
CP-5-3/8-24 HD ¾-24 mt (RS-730) w/16.5' coax	69.99
CP-5M Hvy duty UHF mt (RS-730) w/16.75' coax	69.99
CP-5NMO Hvy duty NMO mt (RS-730) w/16.5' coax	69.99
CQ-5N Dlx black QD tnk lip mt/17' coax/N ..D	24.99
CR-5M Std coax assy, 16.5' coax, UHF conn	19.99
CT-5M Trunk lip mount w/16.5' coax	39.99
GRB-5M Deluxe black trunk lip mt w/coax	69.99
MG-4N Magnet mt w/13' coax, N connector	54.99
RS-9 Trunk lip mount, no coax	9.99
RS-520 Mini heavy duty trunk/hatch mount	28.99
RS-560C Luggage rack mount, no coax	37.99
RS-720 Hatch/rear door/tnk multi-adj mt	29.99
RS-720NMO Hch/rear door/tnk multi-adj NMO mt	29.99
RS-730 HD rear van/SUV door/tnk lip mt, no coax	32.99
WS-1M Window clip mt w/UHF connectors	66.99

BASE STATION ANTENNAS

CA-712EF 440 9db 10' 5" base antenna	\$119.99
CA-ABC22A 2m 6.5db 9' 5" base/rpr ant	75.99
CA-ABC23 2m 7.8 db 13' 4" base/rpr ant	119.99
CA-F726F 440-470 6db 3' 6" tunable ant	119.99
CA-52HBA 6m 4 el 10.4db 10' 6" boom beam	139.99
CHA-250B 3.5-57MHz no radicals 23.5' vertical	429.99
CX-333 2m/220/440 6.5/7.8/9db 10.25' ant	189.99
CYA-1216E 1.2GHz 16el 16.6db 4' 5" Bm beam	109.99
DS-150S 6m/2m/440/900/1.2 disc/60' coax	99.99
GH-50 6m 2.15db 7' 10" fg base antenna	109.99
GP-1 2m/440 3/6db 4' 1" base/rpr antenna	74.99
GP-3 2m/440 4.5/7.2db 5' 11" base/rpr ant	99.99
GP-6 2m/440 6.5/9db 10' 2" base/rpr ant	159.99
GP-9 2m/440 8.5/11.9db 17' 8" base/rpr	219.99
GP-9N 2m/440 8.5/11.9db 17' 8" N base/rpr	219.99
GP-15 6/2m/440 3/6.2/8.6db 7' 11" base	179.99
GP-21/CA-1221S 1.2 14.8db 8' N base/rpr	169.99
GP-24R 2.4GHz 15.4db 5' 10" N base/rpr	149.99
GP-95 2m/440/1.2 6.8/6.12.8db 8' 1-pc N ant	159.99
GP-98 2m/440/1.2 6.5/9/13.5db 9' 8" N ant	169.99
KP-20 900 MHz 9.2db 7' 4" type N base/rpr	121.99

DUPLEXERS AND TRIPLEXERS

CF-142 1.3-150/200-480 600/400w UHF/leads	\$ 69.99
CF-360A 1.3-30/50-470 600w UHF w/leads	69.99
CF-360B 1.3-30/50-470 600w UHF/common lead	69.99
CF-416A 2m/440 800/500w UHF w/leads	49.99
CF-416B 2m/440 800/500w UHF/N w/leads	49.99
CF-416C 2m/440 800/500w N/UHF/N leads	54.99
CF-416W 1.3-250/400-1400 400/200w N/leads	69.99
CF-530 1.3-90/125-470 600w UHF w/leads	74.99
CF-530C Backwards duplexer for FT-8900R	69.99
CF-706A 1.3-56/75-470 350w UHF w/leads	74.99
CF-4130B 1.3-460/840-1400 800/500/200w V/UHF	49.99
CF-4160I 2m/440 800/500w UHF/UHF/N, no leads	48.99

Comet - continued AES Price

CF-4160J 2m/440 800/500w SO239, no leads	53.99
CF-4160K 2m/440 800/500w all UHF, no leads	48.99
CFX-324A 2m/220/440 600w UHF w/leads	88.99
CFX-324B 2m/220/440 600w UHF, no leads	85.99
CFX-514 HF/2m/440 800/800/500w UHF w/leads	79.99
CFX-514J HF/2m/440 800/800/500w UHF, no leads	74.99
CFX-514N HF/2m/440 800/800/500w UHF/N w/leads	79.99
CFX-4310C 1.3-150/440/1.2 triplexer, no leads	79.99
CFX-5140 HF/6m/2m/440 800/800/500w UHF, no leads	74.99

HT & HANDHELD SCANNER ANTENNAS

BNC-24 2m/440 17" 2.15/5.3db BNC whip	\$ 24.99
CH-32 2m/440 1.75" BNC Miracle Baby ant	29.99
CH-75 2m/440 0/3.2db 14.75" BNC ant	25.99
HB-05 18" BNC female - SMA male adapter/cbl	14.99
HM-05 18" BNC male - SO-239 adapter/cable	14.99
HS-05 18" SMA male - SO-239 adapter/cable	14.99
HS-10 39" SMA male - SO-239 adapter/cable	17.99
HT-224 2m/220/440 11.5" SMA antenna	47.99
SH-55 2m/440 1.5/3.2db 15" BNC ant	33.99
SH-95 2m/440/1.2 1.5/2.15/5.5db BNC ant	34.99
SMA-3 2m/440 1.2/1.7db 9.75" SMA ant	39.99
SMA-24 2m/440 17" 2.15/5.3db SMA whip	24.99
SMA-501 2m/440/900 1.5" SMA antenna	29.99
SMA-503 2m/440 8.75" SMA antenna	29.99
SMA-703 2m/440/1.2GHz 6.5" SMA ant	31.99

Comm Outfitters (COF)

EXP-1 Expedition Pack for Yaesu FT-817	\$ 99.99
--	----------

COMM-SPEC (COM)

ID-8 Automatic morse station identifier	\$ 69.99
SS-64 64-tone mini prog CTCSS encoder	28.99
TS-32 32-tone CTCSS prog encoder box	49.99
TS-64DS 64-tone CTCSS prog encoder/decoder	57.99

CONNECTORS

AMPHENOL COAX CONNECTORS (AMP)

83-1SP-1050 Male coax plug (PL-259)	\$ 2.49
83-1SP Silver plated coax plug (PL-259)	2.99
(CZL) 401TS silver plated teflon PL-259	1.99
83-168-RFX Reducer, RG-59/RG-8X (UG-176)	.99
83-185-RFX Reducer for RG-58 (UG-175)	.99
(SHA) PL-259-CP-G Solderless PL259/RG8X/58	6.99
(SHA) PL-258-CP-G Solderless splice/RG8X/58	9.99
83-1AP Right angle adaptor (UG-646)	10.99
83-1J Double female adaptor (PL-258)	8.99
83-1R Female chassis mt socket (SO-239)	3.99
83-1T T-connector adaptor (M-358)	14.99
83-877 Double male adaptor for RG-58	19.99
83-878 Single hole ¾" chassis socket	5.99
31-002 BNC male connector for RG-58	5.99
31-012 BNC male connector, RG-59/RG-8X	9.99
31-221 BNC female chassis socket	2.99
82-24 Type N female chassis mt socket	9.99
82-64 Type N right angle adaptor	19.99
(CAB) 6633S Type N male plug	6.99
82-202-1006 Type N male, 8214/9913/9913F	7.99
34025 Type N male connector for RG-58	11.99

AMPHENOL COAX ADAPTORS (AMP)

2900 SO-239 to BNC male adaptor	\$ 14.99
4400 SO-239 to type N male adaptor	17.99
31-28 BNC female to PL-259 adaptor	19.99
(HOU) SMA-872 SO-239 to SMA plug adaptor	5.99

AIM CONNECTORS, PLUGS & ADAPTORS (AIM)

25-7365 BNC female to SO-239	\$ 3.99
25-7420 BNC male to SO-239	3.99
26-1010 Type N double female	4.99
26-8011 Type N chassis mount	2.99
26-8014 N female to PL-259	4.99
26-8015 N male to SO-239	4.99
26-8017 BNC male to N female	4.99
27-8120 BNC female to PL-259	3.99

Connectors - continued AES Price

27-8130 BNC double male	3.99
27-8140 BNC T; 2 female, 1 male	2.99
27-8142 BNC T, 3 male	.29
27-8470 Dual BNC chassis mount	3.99
29-3855 BNC female to SMA male	4.99
29-4140 SO-239 to mini PL-259	3.99
CPAD-207 Chassis mt SO-239 double female	4.99
CPAD-556M Dual BNC chassis mount	3.99
CPAD-809 BNC female to N male	6.99

VANCO MICROPHONE CONNECTORS (VCO)

CBC-3 3-pin female mic plug	\$.29
CBC-4 4-pin female mic plug	4.99
CBC-5 5-pin female mic plug	3.99
CBC-6 6-pin female mic plug	4.99
(PHI) 61-608B 8-pin female mic plug	4.99
CBC-8P Panel mt 8-pin male	5.99

KENWOOD DIN PLUGS (KEN)

7-pin DIN plug	\$ 4.99
8-pin DIN plug	6.99
13-pin DIN plug	9.99

VANCO Mic Holders/Mini Plugs/Cig Plugs (VCO)

MH-1 Magnetic mic holder	\$ 1.99
MH-2 Regular mic holder	1.49
P-12R 2-contact cigarette plug	2.29
P-12V Cig lighter plug w/leads	2.29
P-35 3.5mm miniature phone plug	.69
P-212 2-outlet cigarette plug adaptor	4.99
P-212B Dual cigarette lighter socket adaptor	8.99
(DAL) 15-0293 3.5mm mono phone plug	.19
(HOU) AP-115 ¼" metal stereo plug	1.99
(HOU) AP-135 3.5mm stereo mini phone plug	.69
(HOU) VCC-6B 20 pack of cable clips; RG6/8X	2.99

Connect Systems (CSY)

CS-800 Desk duplex interconnect/rptr controller	\$369.99
CS-900 Desk simplex interconnect	369.99

CROSS DEVICES (CRS)

STUF Coax connector waterproofing filler	\$ 5.99
--	---------

CUSHCRAFT (CUS)

At Cushcraft's request, amateur radio dealers are not authorized warranty deposits for Cushcraft Antennas. All warranty issues should be directed to the Technical Support Department/Warranty at Cushcraft (603) 627-7877.

VHF/UHF FM BEAMS* (Vertical polarization)

A148-3S 2m, 3 el wideband beam, 7.8db	\$ 77.99
A148-10S 2m, 10 el wideband beam, 13.2db	124.99
A449-6S 440 MHz, 6 el, 3' boom, 10 db	73.99
A449-11S 440 MHz, 11 el, 4.5' boom, 13 db	99.99

*Antennas can be mounted vertically or horizontally!

2M/440 FM BEAMS* (Vertical polarization)

A270-6S 2m/440, 3/3 el, 2.8' boom, 7.8 db	\$ 99.99
A270-10S 2m/440, 5/5 el, 6.17' boom, 10 db	129.99

*Antennas can be mounted vertically or horizontally!

TRI-BAND 6M/2M/440 BEAM

A6270-13S 6m/2m/440, 3/5/5el, 8.66bm, 8/10/10db	\$249.99
---	----------

FM RINGOS - 1/2 Wave Verticals

AR-10 10m FM Ringo, 17.6', 3db, 1000w	\$ 99.99
AR-6 6m FM Ringo, 10.1', 3db, 1000w	99.99
AR-2 2m FM Ringo, 3.9', 3db, 1000w	59.99
AR-450 440MHz FM Ringo, 1.4', 3db, 500w	45.99

RINGO RANGERS - FM Verticals

ARX-2 2m FM Ringo Ranger	\$ 69.99
ARX-2B 2m FM Ringo Ranger II, 14', 7db, 1000w	84.99
ARX-220B 220 FM Ringo Ranger II, 9.3', 7db, 500w	84.99
ARX-450B 440FM Ringo Ranger II, 4.9', 7db, 500w	84.99

DUAL-BAND 2M/440 FM RINGOS

AR-270 2m/440MHz FM, 3.75', 3/5.5db, 250w	\$114.99
AR-270B 2m/440 MHz FM, 7.7', 5.5/7.5db, 250w	124.99

Cushcraft - continued AES Price

TWIST, OSCAR BEAM (Horiz/Vert Polarization)	
A148-20T 2m 20el 10.8' boom 13db twist	\$174.99
BOOMER ANTENNAS	
124WB 2m Boomer, 4 el, 4' boom, 10.2 db	\$109.99
13B2 2m Boomer, 13 el, 15' boom, 14.2 db	199.99
17B2 2m Boomer, 17 el, 31' boom, 18 db	299.99
26B2 2 13B2s vertically stacked	499.99
224WB 220 Boomer, 4 el, 3' boom, 10.2db	96.99
719B 432 19 el 13.5' boom 15.5db	189.99

BOOMER POWER DIVIDERS

PD-2 Power divider for 2 13B2s	\$ 71.99
PD-4 Power divider for 4 13B2s	90.99

VHF/UHF BEAMS* (Horizontal polarization)

A50-3S 6m, 3 el, 6' boom, 8 db, stainless hdwre	\$139.99
A50-5S 6m, 5 el, 12' boom, 10 db, stainless hdwre	219.99
A50-6S 6m, 6 el, 20' boom, 11db, stainless hdwre	349.99
A148-10S 2m, 10 el w/ideband beam	124.99
A430-11S 430 MHz, 11 el, 4' boom, 13 db	99.99

*Antennas can be mounted vertically or horizontally!

MONO-BAND MOBILE ANTENNAS

CS-28M 10m magnet mt antenna	\$ 64.99
CS-50M 6m magnet mt 3 db antenna	64.99
CS-147A 2m coil & whip only	44.99
CS-147M 2m magnet mt 3 db antenna	64.99
CS-220M 220 magnet mt 3 db antenna	64.99
CS-450M 440 magnet mt 5 db antenna	64.99

DUAL-BAND 2M/440 MOBILE ANTENNAS

CS-270A 2m/440 coil & whip only	\$ 64.99
CS-270M 2m/440 3.7/6 db magnet mt ant ..	89.99

MOUNTS ONLY FOR MOBILE ANTENNAS

CS-MG Magnetic mount	\$ 32.99
CS-MGN Magnetic mount w/N connector	37.99
CS-TL Trunk lip mount	32.99

MULTIBAND HF VERTICAL ANTENNAS

MA-5V 20/17/15/12/10m 14.7' vertical ant ..	\$259.99
MA-6V 20/17/15/12/10/6m 14.7' vertical ant	319.99
MA-160V 160m 36' vertical ant w/radials	249.99
MA-8040V 80/40m 22' vertical antenna	259.99
R-6000 20/17/15/12/10/6m 19' vertical	369.99
R-8 40/30/20/17/15/12/10/6m 28.5' vert	539.99
R-8GK Guy kit for R-8	56.99

ROTATABLE HF DIPOLES

D-3 20/15/10m World Ranger rotatable dipole	\$299.99
D-3W 30/17/12m rotatable dipole	299.99
D-4 40/20/15/10m World Ranger rotatable dipole	419.99
D-40 40m World Ranger rotatable dipole	369.99

BIG THUNDER HF TRI-BAND BEAM

X-7 20/15/10m, 7 el, 18' boom, 12.5/13db ..	\$799.99
X-740 40m add-on kit for X-7	349.99

BIG THUNDER HF MONOBAND BEAM

XM-240 40m, 2 el, 22' boom, 7 db	\$829.99
TEN-3 10m, 3 el, 8' boom, 8 db	249.99

MULTIBAND HF BEAM ANTENNAS

A-3S 20/15/10m, 3el, 14'bm, 8db, stainless hdwr	\$549.99
A-743 40m or 30m add-on kit; A-3/A-3S	199.99
A-4S 20/15/10m, 4el, 18'bm, 8.9db, stainless hdwre	649.99
A-744 40m or 30m add-on kit; A-4/A-4S	199.99
A-3WS 17 & 12m, 3 el, 14' boom, 8 db	429.99
A-103 30m add-on kit for A-3WS	199.99
ASL-2010 13.5-32MHz 8el 18' bm 6.4db LP ..	899.99
MA-5B 20/17/15/12/10m 7.3' boom mini beam	399.99

LIGHTNING ARRESTORS

LAC-4 200w SO-239 gas tube arrestor	\$ 64.99
LAC-4H 2kw SO-239 gas tube arrestor	70.99
LAC-4N 200w type N gas tube arrestor	83.99
LAC-4NH 2kw type N gas tube arrestor	86.99
LC-2 Extra 200w cartridge for LAC-4/4N ..	20.99
LC-2KW Extra 2kw cartridge for LAC-4H/4NH	22.99

Cushcraft - continued AES Price

5VB Vinyl connector boots pack of 5	15.99
DCI (DCI)	
145-2H 2m 144-146MHz 200w bandpass filter	\$169.99
146-4H 2m 144-148MHz 200w bandpass filter	169.99
223.5-3H 222-225MHz 200w bandpass filter	169.99
2m/220 models w/N connectors add \$10 special order	
435-10C 430-440MHz 200w N bandpass filter	189.99
445-10C 440-450MHz 200w N bandpass filter	189.99
146/444-DB 144-148/438-450 200w bp filter	239.99

DAIWA (DAI)

CN-101 1.8-150/150/1.5kw SWR/pwr meter/light	\$ 99.99
CN-103M 140-525 20/200w SWR/power meter	99.99
CN-103N 140-525 20/200w N SWR/pwr meter	109.99
CN-801HP 1.8-200 20/200/2kw SWR/PEP pwr	159.99
CN-801SI 900-2.5GHz 200mw/200w N SWR/pwr	269.99
CN-801V 140-525 20/200w SWR/power meter	154.99
CS-201 2-position 600MHz coax switch	32.99
CS-201GII 2-position 2GHz N coax switch	44.99
SS-330W Variable 30A switch ps/fan/meters	169.99
SS-505 Variable 50A switch ps/fan/meter/3-outputs	399.99

DAVIS (DAV)

6152 Wireless Vantage Pro2 weather station ..	\$539.99
7400 Perception II indoor weather unit	139.99
7425 Wizard III weather station	179.99
7440 Monitor II weather station	269.99
7852 Rain Collector II, 0.01"	69.99
7859 External temp/humid Sensor II; 7440 D ..	99.99
7862 Weatherlink Win interface/software	149.99
7866 Weatherlink Mac interface/software	39.99
7870 Modem adapter for 7862/7866	29.99
7867 Weatherlink Mac to Win conv kit	19.99
7868 Weatherlink Win to Mac conv kit	19.99
7873 Cig lighter power cord	6.99
7876-040 4-conductor 40' extension cbl Δ ..	9.99
7878-040 6-conductor 40' extension cbl Δ ..	14.99
7881 8-conductor 50' junction box cable Δ ..	14.99
7882 8-conductor 100' junction box cbl Δ ..	29.99
7890 Mast mount for anemometer	6.99
0131 Weather forecasting quick reference card ..	9.99
0276 WindScribe electronic wind/temp indicator	99.99
0281 Wind Wizard handheld wind indicator ..	49.99

DIAMOND (DIA)

SWR/POWER METERS

SX-20C HF/6m/2m 30/300w meter	\$ 89.99
SX-40C 144-470 (220 w/correction) 15/150w	79.99
SX-100 1.6-60 MHz 30/300/3kw PEP meter ..	134.99
SX-200 1.8-200 MHz 5/20/200w PEP meter ..	94.99
SX-400 140-525 MHz 5/20/200w PEP meter ..	114.99
SX-600 Dual band 1.8-160/140-525 200w PEP mtr	169.99
SX-1000 1.8-160/430-1300MHz 200w PEP meter	214.99

HT & HANDHELD SCANNER ANTENNAS

MAY-1000 2el 120-500MHz handheld beam ..	\$ 99.99
RH-3 2m/440 1.75" BNC mini HT duck	24.99
RH-772A 2m/440 1.5" BNC rubber gain ant ..	24.99
RH-205 2m w/ave 47.5" BNC telescopic ant ..	24.99
RH-519 2m/440 8" BNC flexible whip	24.99
RH-707 2m/440 8" BNC tilttable whip	33.99
RH-789 93-1100MHz adjustable freq BNC ant ..	34.99
RH-951S 2m/440/1.2GHz 14" BNC slim duck ..	44.99
RHF-40 2m/440 1" BNC flexible rubber gain ant	29.99
SRH-772A 2m/440 15" SMA rubber gain ant ..	24.99
SRH-320A 2m/220/440 13.75" SMA flex whip	49.99
SRH-519 2m/440 8" SMA flexible whip	27.99
SRH-789 93-1100MHz adjustable freq SMA ant	34.99
SRH-805 2m/440/1.2GHz 1.75" SMA ant	27.99
SRH-815 2m/440/1.2GHz 6" SMA flex whip ..	31.99
SRH-940 6m/2m/440 18" SMA flexible whip ..	34.99
SRH-999 6m/2m/440/1.2GHz 20" SMA flex whip	59.99

Diamond - continued AES Price

SRHF-40 2m/440 15" SMA flexible rubber gain ant	29.99
MONO-BAND MOBILE ANTENNAS	
HF-6FX 6m 2.15db 44" mobile antenna	\$ 69.99
HF-50CX 6m 3.5db 71" mobile antenna	99.99
M-285 2m 3.4db 52.4" NMO mobile ant	31.99
M-285NMO 2m 3.4db 52.4" NMO mobile ant ..	31.99
M-685 6m 2.15db 52.4" mobile antenna	31.99
M-685NMO 6m 2.15db 52.4" NMO mobile ant ..	31.99
MG-200 2.4GHz 7db 23.6" N mobile ant	89.99
NR-22L 2m 6.5db 96.8" mobile antenna	69.99
NR-124NMO 1.2GHz 8.4db 25" NMO antenna ..	64.99
NR-140NMO Black 220 4db 37" NMO ant ..	53.99
SG-2000HD 2m 5.2db 62.6" 250w mob ant ..	89.99

DUAL-BAND MOBILE ANTENNAS

CR-270A 2m/440 2.15/3.4db 17.2" mobile ant	\$ 42.99
MR-77 2m/440 2.15/3.4db 20" magnetic ant ..	39.99
MR-77SMA 2m/440 2.15/3.4db 20" mag w/SMA ..	44.99
NR-72BNMO Black 2m/440 2.15db 14" NMO ..	44.99
NR-73BNMO Blk 2m/440 2.15/5.5db 34" NMO	57.99
NR-770HA 2m/440 3/5.5db 40" mobile ant ..	56.99
NR-770HB Black 2m/440 3/5.5db 40" mobile ..	59.99
NR-770HNM 2m/440 3/5.5db 40" NMO mobile	56.99
NR-770HBNMO Blk 2m/440 3/5.5db 40" NMO	59.99
NR-770HRKS 2m/440 3/5.5db 40" adhesive mt	109.99
NR-7900A 2m/440 3/7.6db 57" hi pwr mob ant	84.99
SG-M510 2m/440 2.15/5.5db 37" mob ant ...	59.99
SG-7000A 2m/440 2.15/3.8db 19" mobile ant ..	69.99
SG-7500A 2m/440 3/5.6db 41" mobile ant ..	77.99
SG-7500NMO 2m/440 3/5.6db 41" NMO ant ..	79.99
SG-7900A 2m/440 5/7.6db 62" mobile ant ..	109.99
SG-7900ANMO 2m/440 5/7.6db 62" NMO ant ..	114.99
K-400CNMO Hatch/trnk mt/coax; SG7900ANMO	69.99

TRI-BAND MOBILE ANTENNAS

CR-320A 2m/220/440 2.15/3.8/5.5db 36"	\$ 89.99
CR-320BNMO Black 2m/220/440 36" NMO ant ..	89.99
CR-627B 6m/2m/440 2.15/4.5/7.2db 60" ant ..	99.99
CR-627BNMO 6m/2m/440 2.15/4.5/7.2db 60"	99.99
HV-7A 10/6/2m/440 54" UHF mount mobile ant	109.99
HVC-7 40m loading coil for HV-7A/MV-3A ..	44.99
HVC-14 20m loading coil for HV-7A/MV-3A ..	37.99
HVC-18 17m loading coil for HV-7A/MV-3A ..	37.99
HVC-21 15m loading coil for HV-7A/MV-3A ..	37.99
NR-2000NA 2m/440/1.2 3.15/6.9/7db 39" N mob	89.99
SG-M911 6m/2m/440 2.15/3/5.8db 41" mob	69.99

QUAD-BAND MOBILE ANTENNAS

CR-8900A 10m/6m/2m/440 0/0/2.15/5.5db 50"	\$ 99.99
D-220 2m/440/900/1.2G 35.5" mobile discone	109.99

ADHESIVE BACKED MOBILE MOUNT

HRKS SO239 mt/13" coax/SMA/PL259 adapter	\$ 69.99
--	----------

MAGNET MOUNTS

DPK-4NM-N Hvy duty mag mt, cbl, N, 45" max	\$ 54.99
K-702M Hvy duty mag mt, 6 3/4" dia, 50" max	49.99
SPM-35 Hvy duty mag mt, cable, 45" max	39.99
SPM-NMO Hvy duty NMO mag mt, cbl, 45" max	49.99

TRUNK LIP MOUNTING KITS

K-400 Hatch/trunk mt; NR/SG antennas	\$ 39.99
K-400C Hatch/trunk mt w/coax; UHF mount ..	73.99
K-400CNMO Hatch/trunk mt w/coax; NMO mt ..	73.99
K-400S Hatch/trunk mt w/coax; UHF mt/SMA ..	79.99
K-400SNMO Hatch/trunk mt w/coax; NMO/SMA	79.99
K-400-3/8C Trunk mount w/6.5" cable; w/-24	73.99
K-412C Light duty hatch/trnk mt w/coax; UHF mt	64.99
K-412CNMO Light duty hatch/trnk mt w/coax; NMO	64.99
K-412S Light duty hatch/trnk mt w/coax; UHF/SMA	69.99
K-412SNMO Lt duty hatch/trnk mt w/coax; NMO/SMA	69.99
K-110 10' extension cable for K-412 mts ..	19.99
K-600M Tilt angle SO-239 trunk mt w/cable ..	57.99
K-600S Tilt angle SO-239 trnk mt w/cable/SMA	62.99
K-601M SO-239 hideaway trunk mt, 6' coax ..	69.99
K-601NMO NMO hideaway trunk mt, 6' coax D	69.99

Diamond - continued AES Price

C-110	10' extension cable for K-601 mts ..	19.99
K-604M	Tilt angle trunk mt w/flexible cable D	24.99
K-900LRM	Motorized luggage rack mount ..	109.99
K-900LRMO	Motor lug rack mt; o/s hardware	109.99
K-900TMM	Motorized trunk/hatchback mt	109.99

MIRROR & LUGGAGE RACK MOUNTS & KITS

K-515S	Lug rack SO-239 mt; new type SUV/SMA	\$ 69.99
K-515SMMO	Lug rack NMO mt; new type SUV/SMA	69.99
K-540	Mirror/luggage rack mt; under 45"	35.99
K-540KM	Mirror/luggage rack mt w/coax	59.99
K-550*	Luggage mt; new mini vans (use GLP)	44.99
K-550KM*	Luggage mt w/ SO-239 base/coax	69.99

*K-550 series not recommended for Yae ATAS-100/120

Mounting Group Hardware

BNCJ-SMAP	Low prof bkt BNC-F to SMA-M adapt	\$ 9.99
C-101	SO-239 mt, 6.5' RG-316 low-loss coax	37.99
C-101-3/8C	Extra cable assembly; K400-3/8C	34.99
C-101-3/8C-KIT	Upgrades any K400 to K400-3/8C	44.99
C-101NMO	NMO mt, 6.5' RG-316 low-loss coax	37.99
C-104SMA	4' RG-58 ext cbl; SMA male & SO-239	16.99
C-105SMA	5' RG-58 ext cable; C-101/SMA male	16.99
C-110	10' ext cable; C-101/K-601/K-400-3/8C	19.99
C-110BNC	10' extension cable to BNC male ..	29.99
C-110SMA	10' RG-58 ext cable; C-101/SMA male	29.99
C-211	SO-239 mt, 6.5' coax, 10' coax extend	49.99
C-213	SO-239 mt, 13.5' RG-316 low-loss coax	44.99
C-213NMO	NMO mt, 13.5' RG-316 low-loss coax	44.99
CRM	Stainless steel right angle bracket w/U-bolts	16.99
NMO/UHF	NMO to UHF adapter	14.99
NMO/UHF-B	Black NMO to UHF adapter	14.99

MONO-BAND BASE STATION ANTENNAS

A-144S5	2m 5 el 37.5' boom 9db beam	\$ 59.99
KB-144	Side mounting bracket/hardware	24.99
A-430S10	430 10 el 43' boom 13db beam	69.99
KB-430	Side mounting bracket/hardware	22.99
A-430S15	430 15 el 89' boom 14.8db beam	89.99
A-502HB	6m 2 el 2.6' boom 6.3db beam	99.99
PC-200	430-490MHz tunable 6.5db 5.6' base	99.99
CP-22E	2m 6.5db 9' base antenna	54.99
DG-GH62	6m 6db 21' base antenna	149.99
F-22A	2m 6.7db 10.5' base antenna	99.99
F-23A	2m 7.8db 15' base antenna	129.99
F-718A	440 11.5db 15' type N base antenna	199.99
F-1230AII	1.2GHz 13.1db 12' N base ant	179.99
G-200	2.4GHz 11db 6' N base antenna	199.99
2400-Y12	2.4GHz 12db 8el 15'bm 25w N beam	129.99

DUAL-BAND BASE STATION ANTENNAS

U-200	440/1.2GHz 8.3/11.7db 6' N base ant D	\$119.99
X-30A	2m/440 3/5.5db 4.5' base antenna	69.99
X-50A	2m/440 4.5/7.2db 5.6' base antenna ..	99.99
X-50NA	2m/440 4.5/7.2db 5.6' base N ant	104.99
X-200A	2m/440 6/8db 8.3' base antenna	124.99
X-300A	2m/440 6.5/9db 10' base antenna	134.99
X-300NA	2m/440 6.5/9db 10' base N ant	149.99
X-510HDM	2m/440 8.3/11.7db 17.2' hi pwr ant	219.99
X-500HNA	Hvy duty 2m/440 8.3/11.7db 17.8' N ant	289.99
X-510MA	2m/440 8.3/11.7db 17.2' base ant	199.99
X-510NA	2m/440 8.3/11.7db 17.2' type N ant ..	199.99
X-510NJ	143.5-146.5/428-442 8.3/11.7db 17.2' N	199.99
X-700HNA	2m/440 9.3/13db 24' type N ant ..	389.99

TRI-BAND BASE STATION ANTENNAS

D-130J	50-1300 MHz 200w discone antenna	\$ 99.99
D-130NJ	50-1300 MHz 200w N discone ant ..	99.99
V-2000A	52-54MHz/2m/440 2.1/6.2/8.4db 8.3'	164.99
X-3200A	2m/220/440 6.7/8.8db 10' base	169.99
X-6000A	2m/440/1.2 6.5/9/10db 10.5' N	199.99
BB-7V	2-30MHz 22' no radial vertical (use tuner)	399.99
CP-725H	40/15/10/6m 11.67' trap vert/radials	399.99

DUPLEXERS & TRIPLEXERS

MX-37	440/1200MHz N/N duplexer w/cable ..	\$ 59.99
-------	-------------------------------------	----------

Diamond - continued AES Price

MX-62M	HF-6m & 2m/440, 12" cables dplx ..	74.99
MX-72A	HF-2m/440 dplx/440 N female, 12" cbls	54.99
MX-72D	HF-2m/440 400/150/100w duplexer	48.99
MX-72H	HF-2m/440 duplexer w/12" cables ..	54.99
MX-72N	HF-2m/440 dplx, 440 type N male, 12" cbls	49.99
MX-214D	2m/220 150/100w dplx, no cables	59.99
MX-324	2m/220/440 triplexer	89.99
MX-324D	2m/220/440 triplexer, no cables ..D	79.99
MX-610	HF-6m duplexer; IC-706/FT-100	69.99
MX-2000	HF-6m/2m/440 400/400/250w triplexer	89.99
MX-3000	HF-2m/440/1.2 400/200/100w triplexer	79.99
MX-3000H	HF-2m/440/1.2 400/200/100w N triplexer	85.99

ACCESSORIES

CA-23RP	2500MHz 200w N-F-N-M lightning protect	\$ 41.99
CA-23RS	2500MHz 200w N lightning protector	39.99
CA-23RW	2500MHz 200w N waterproof protector	44.99
CA-35R/RS	1000MHz 400w lightning protector	29.99
CA-35RPW	1000MHz 400w waterproof protector	39.99
CX-210A	1.5kw DC-1000MHz coax switch	44.99
CX-210D	1.5kw DC-1500MHz N coax switch ..	74.99
CX-310A	HD 3-pos DC-800MHz coax switch ..	83.99
DL-30A	15/100w peak 0-500MHz dummy load	39.99
DL-30N	15/100w peak 0-500MHz N dummy load	39.99
GZV-4000	Variable 40A switching ps/meter/spkr	179.99
PC-3	10' DC cable w/T-connector for mob rig	15.99

DURACELL (DUR)

9V	9v alkaline battery	\$ 3.69
AA-4	4-pack AA alkaline batteries	3.69

DYNAMITE (DYN)

1000	Dyna-Sport 1500mah 6-cell flat nicad	\$ 4.99
1145	Dyna-Fun 2000mah 6-cell nicad	6.99
4010	Mega 1 AC/DC quick charger	9.99
4046	Vision Peak Plus AC/DC peak charger	39.99

ECG (ECG)

U-105	Light duty antenna rotor/3-wire	\$ 69.99
U-106	Light duty ant rotor/presets/IR rem/3-wire	89.99
TB-105	Thrust bearing for U-105/U-106 ..	18.99

ESP (ESP)

ESP-1	Microphone audio processor	\$225.99
-------	----------------------------------	----------

EASY-UP (UPS OK) (EAS)

EZ 5-16	5' 16 ga steel mast	pick-up only 12.99
EZ 29-24S	Stainless double strap chimney mt	22.99
EZ 30-24	Dlx wall mt w/extra 3rd leg support	29.99
EZ 31	Heavy duty adjustable eave mount	29.99
EZ 48-3ABX	3' boxed tripod w/pitch pad kit ..	39.99
EZ 48-5ABX	5' boxed tripod w/pitch pad kit ..	59.99

ELK Antennas (ELK)

2M/440-L5	2m/440 5el quick assembly LP beam	\$ 89.99
220-L6	220 6el quick assembly LP beam	81.99
440-L8	440 8el quick assembly LP beam	81.99
Elk Bag	Canvas carrying bag for Elk antenna ..	24.99

EXCALIBUR (EXC)

908	Talking electronic chess computer	\$ 59.99
H-422	Large Forever Flashlight (clear case) ..	29.99
H-423	Small Forever Flashlight (clear case) ..	24.99

GAP VERTICALS (GAP)

DX-VIII	Challenger 75*/40/20/15/12/10/6/2m 31.5'	\$299.99
	*80m CW w/capacitor exchange from GAP	
	Challenger Counterpoise	32.99
	(SYN) 100% 1/2" black double braided rope ..	9.99
DX-IV	Eagle 40/20/17/15/12/10m 21' rigid ..	329.99
DX-IV	Voyager 160/80/40/20m 45'; use 350' guy	439.99
	Voyager Counterpoise	64.99
	(SYN) 350% 1/2" black double braided rope ..	49.99
Titan DX	75*/40/30/20/17/15/12/10m, 25' ..	359.99
	*80m CW w/capacitor exchange from GAP	

Gap - continued AES Price

100' Guy Kit	with clamp	15.99
200' Guy Kit	with clamp	23.99
Ground Mount	Quick tilt mt for vertical ant ..	79.99
Ladder Mount	Quick tilt mt; campers/RVs	79.99
Hear It	DSP noise eliminating speaker	159.99
In Line Module	Hear It in line module noise elim	199.99

GARMIN (GAR)

Geko-101	Small GPS receiver	D \$ 79.99
Geko-201	Small GPS receiver w/WAAS	139.99
GPS-12XL	GPS receiver	D 149.99
GPS-72	Handheld track-plotter GPS	129.99
GA-27C	Low prof rem ant/cbl; GPS-12CX/XL	89.99
010-10048-00	Mounting bkt; 12CX/XL ..	16.99
010-10082-00	Power/data cable	27.99
010-10085-00	Cig lighter adapter cable	23.99
010-10117-01	Carrying case	D 1.99
010-10117-02	Carrying case; Street Pilot ..	12.99
010-10121-00	MCX-BNC adapt cbl; 12CX/XL	14.99
010-10141-00	PC interface cable	38.99
010-10165-00	PC cable w/cig adapter	45.99
GPS-60	GPS w/1MB internal memory	159.99
GPS-MAP60	GPS w/24MB internal memory ..	219.99
010-10117-02	Carrying case	12.99
010-10117-01	Carrying case; GPS-V Deluxe D	1.99
010-10199-03	Carrying case; Street Pilot ..D	2.99
010-10227-00	Blank 8MB mem cartridge ..D	9.99
010-10232-00	Carrying case; Street Pilot ..D	2.99
010-10468-00	MapSource MetroGuide CD ..D	69.99
GA-26C	Low profile remote ant w/cbl/BNC	79.99

StreetPilot 2610	Deluxe GPS	D 499.99
1000	Low profile remote ant/cable/MCX	89.99
StreetPilot C330	Deluxe GPS w/software	299.99
GA-27C	Low profile remote ant/cable/MCX	89.99
eTREX	12 ch mini GPS receiver	99.99
eTREX Summit	12ch mini GPS/compass/barometric	149.99
010-10203-00	Cig lighter cbl; eMAP & eTREX	39.99
010-10205-00	Data cable; eMAP & eTREX ..	22.99
010-10206-00	PC interface cbl; eMAP & eTREX	38.99
cfQue-1620	GPS module for Pocket PC's ..D	169.99
Foretrex 101	Wrist GPS	129.99
Forerunner 201	Wrist GPS/personal trainer ..	149.99
GPS-18PC Dix	GPS sensor for laptop/serial/mag/soft	129.99
GPS-18USB Dix	GPS sensor for laptop/USB/mag/soft	129.99
iQue-3600	Handheld PDA w/integrated GPS	D 399.99
GA-27C	Low prof remote ant/cbl; iQue-3600	89.99
Rino-120	GPS/FRS/GMRS w/8mb mem/basemap	229.99
010-10117-02	Carrying case; Rino-120	12.99

GEAR KEEPER (GEA)

RT2-4012	Hvy duty Mic Keeper w/snap clip ..	\$ 19.99
RT3-4653	Locking HT Gear Keeper/swivel belt clip	26.99

GLEN MARTIN (GME)

TOWERS

M-13A	13" wide alum 10' tower section	T \$268.99
CHB-13	Footing assembly for M-13	129.99
CM-1300	Center mount for M-13	39.99
FB-13	Fixed base for M-13	134.99
HB-13	Hinge base for M-13	198.99
H-5	Aluminum Hazer system for M-13	447.99
M-18A	18" wide alum 10' tower section	T 314.99
CHB-18	Footing assembly for M-18	142.99
FB-18	Fixed base for M-18	173.99
HB-18	Hinge base for M-18	299.99
H-6	Aluminum Hazer system for M-18	487.99

TOWER PACKAGES

M-1330A	30' alum tower package w/Hazer ..	T 1864.99
M-1340A	40' alum tower package w/Hazer ..	T 2106.99
M-1350A	50' alum tower package w/Hazer ..	T 2349.99
M-1840A	40' alum tower package w/Hazer ..	T 2415.99
M-1850A	50' alum tower package w/Hazer ..	T 2699.99



Glen Martin - continued AES Price

KB-1000 57" side arm; M-13 series	94.99
KB-1300 57" side arm; M-18 series	97.99
ML-1800 Messenger line kit for GME towers ..	83.99

ROOF-TOP TOWERS

RT-424 4.5' roof-top tower, anodized aluminum	189.99
RT-832 8' roof-top tower, anodized aluminum	279.99
RT-936 9' roof-top tower, anodized aluminum	459.99
RT-1832 17.5' roof-top tower, anodized aluminum	614.99
RT-2632 26' roof-top tower, anodized aluminum	999.99
EL-3744 Concrete L-bolts, set of 8	17.99
LB-3755 Lag bolts, set of 8 (3/4 x 5")	11.99
MC-10 Mast clamp; aluminum, 2 required	28.99
RA-6024 24" side arm for roof towers	48.99
RA-6048 48" side arm for roof towers	64.99
RT-5505 Rubber mat, 18" x 48"	32.99
RT-8900 Non-penetrating roof mount base	524.99

HAZERS FOR ROHN TOWERS

H-2 Heavy duty aluminum Hazer system	\$416.99
H-3 Standard duty aluminum Hazer system ..	316.99
H-4 Heavy duty galv steel Hazer system	399.99
BW-8001 Brake winch for H-2/3/4	93.99
HR-2040 Roller bearing set for Hazers	72.99
HR-6010 TFX plates for H-2/3/4/5	30.99
HS-1301 36" side arm for Hazers	74.99
ML-2500 Messenger line kit for Rohn towers	89.99

LIGHTNING PROTECTION

LR-8400 Premium lightning rod kit	\$114.99
GR-4400 Ground rod wire clamp	8.99
GR-5080 8' x 3/8" ground rod	23.99
LR-8418 Lightning rod point, 1/2" x 18"	45.99
LR-8451 Clamp for holding rod to 1 1/2" mast	28.99
LR-8452 Clamp for holding rod to 2" mast	29.99
TL-0470 Terminal lug	2.99

MASTS

M-1040 10' x 2" OD heavy duty galv steel mast	\$ 92.99
M-1049 9' x 2" OD heavy duty galv steel mast	87.99
MA-1040 10' x 1.92" OD medium duty alum mast	103.99
MA-1049 9' x 1.92" OD medium duty alum mast	98.99
MA-1050 5' x 2" OD medium duty alum mast	67.99
MA-2010 10' x 2.375" OD heavy duty alum mast	120.99
MA-2069 9' x 2.375" OD heavy duty alum mast	109.99
MA-5050 5' x 1.31" OD light duty alum mast	45.99
MP-1409 9' heavy duty fiberglass mast	142.99

TOWER CLIMBING EQUIPMENT

FP-56222 MB/LC/2-D/B-C/S-L harness	\$ 85.99
FP-56224 MB/LC/2-D/B-C/L-XL harness	85.99
FP-56422 MB/LC/4-D/B-H-C/S-L harness	99.99
FP-56424 MB/LC/4-D/B-H-C/L-XL harness	99.99
FP-66611 TB/LC/6-D/B-H-C-H-C/SD/L harness ..	246.99
FP-66612 TB/LC/6-D/B-H-C-C/SD/M harness	246.99
FP-66613 TB/LC/6-D/B-H-C-C/SD/L harness	246.99
FP-66614 TB/LC/6-D/B-H-C-C/SD/LX harness	246.99
FP-75421 TB/LC/4-D/B-H-C/S/L harness	173.99
FP-75422 TB/LC/4-D/B-H-C/M harness	173.99
FP-75423 TB/LC/4-D/B-H-C/L harness	173.99
FP-75424 TB/LC/4-D/B-H-C/LX harness	173.99
FP-26004 1" x 4' web lanyard	26.99
FP-26006 1" x 6' web lanyard	26.99
FP-29002 1" x 2' Centurion lanyard	34.99
FP-29003 1" x 3' Centurion lanyard	35.99
FP-29004 1" x 4' Centurion lanyard	36.99
FP-29006 1" x 6' Centurion lanyard	36.99

All GLEN MARTIN orders are plus freight at Glen Martin's rates direct to you from the factory. You can obtain shipping charges from any AES salesperson by phone or email. There is also a \$10 surcharge on all Glen Martin orders under \$120. There is also a \$75 residential address delivery charge on M-13 & M-18 series towers. We prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive

Glen Martin - continued AES Price

your order. Please allow sufficient delivery time. Most truck lines will not unload towers, so please be sure to have enough manpower and/or equipment on hand.

GROTHE (GRO)

VS-2 Emergency vehicle siren	\$ 89.99
VS-2LS/A Window mt siren/amber halogen spec ord	299.99
VS-2LS/B Window mt siren/blue halogen spec ord	299.99
VS-2LS/R Window mt siren/red halogen spec ord	299.99
VS-3 Volunteer vehicle PA/horn w/spkr	129.99
VS-4 P/A emergency vehicle siren w/spkr	139.99

GRUNDIG/ETON (GRU)

E-1 Portable AM/FM/SW/XM* ready rcvr/ps	\$499.99
*Subscription, tuner & ant required for XM satellite	
(AUD) CNP-1000 Integrated XM tuner/ant	49.99
(AUD) CNP-2000 XM tuner cartridge	29.99
(AUD) CNP-2000H XM home dock/antenna	29.99
E-10 Portable AM/FM/SW receiver w/ps	129.99
E-100 Portable AM/FM/SW receiver	99.99
FR-100 AM/FM/clock/emergency light	19.99
FR-200 AM/FM/SW/flashlight/crank	39.99
FR-250 AM/FM/SW/flashlight/crank/cell cgr	49.99
FR-300 AM/FM/WX/TV sound/flashlight/cell cgr	49.99
FR-400 AM/FM/WX/TV sound/flashlight/cell cgr	59.99
G-5 Portable AM/FM/SW receiver w/ps	149.99
G-1100 Pocket AM/FM/SW receiver	49.99
G-2000A Porsche design AM/FM/SW Rcvr	59.99
GM-300PE Gray mini AM/FM/SW receiver	29.99
GS-350DL Black portable AM/FM/SW Rcvr w/ps ..	99.99
S-350DL Black portable AM/FM/SW Rcvr w/ps ..	99.99

HAL (HAL)

DXP-38 External DSP HF radio modem	\$395.99
RTY-1 RTTY tuning indicator	99.99

HARGER (HRG)

GBIS18114AE 1/8" copper entrance ground bar kit	\$ 39.99
GBIS18148AE 1/8" copper station ground bar kit	83.99
GEL3AE Package of 5 HD grounding lugs	26.99
GP1868.78AE 1/8" copper single pt gnd panel kit	76.99
GBX976AE NEMA-4x weatherproof enclosure	127.99

HEIL (HEI)

BM-5-4 Boom mic/single headset (HC-4)	\$ 85.99
BM-5-5 Boom mic/single headset (HC-5)	85.99
BM-5-IC Boom mic/single headset/adaptor; lcom	99.99
BM-10-4 Boom mic/headset (HC-4)	110.99
BM-10-5 Boom mic/headset (HC-5)	110.99
BM-10-IC Boom mic/headset/adaptor; lcom	130.99
BAG-2 Leatherette travel bag for BM-10	20.99
PRO-SET-4 Deluxe boom mic/headset (HC-4)	140.99
PRO-SET-5 Deluxe boom mic/headset (HC-5)	140.99
PRO-SET-IC Dlx boom mic/headset/adaptor; lcom	150.99
PRO-SET-PLUS Dlx boom mic/headset (HC4&5)	215.99
PRO-SET-PLUS-IC Dlx boom mic/headset (HC4&5);	235.99
PSQP-4 Pro-Set Quiet Phone 4 boom mic/headph	230.99
PSQP-5 Pro-Set Quiet Phone 5 boom mic/headph	230.99
PSQP-IC Pro-Set Quiet Phone; lcom bm mic/headph	250.99
AD-1-1 Pro-Set 8-pin adaptor cord for lcom	20.99
AD-1-IC Pro-Set 8-pin adaptor cord; lcom	20.99
AD-1-ICM Pro-Set modular adaptor cord; lco	20.99
AD-1-IM Pro-Set modular adaptor cord; lco	20.99
AD-1-K Pro-Set 8-pin adapt cord; Kenwood	20.99
AD-1-K-M Pro-Set modular adapt cord; Ken	20.99
AD-1-T Pro-Set 4-pin adapt cord; Ten-Tec ..	20.99
AD-1-Y Pro-Set 8-pin adapt cord; Yaesu	20.99
AD-1-Y-M Pro-Set modular adapt cord; Yae	20.99
HTSS Single side Traveler headset	75.99
HTDS Dual side Traveler headset	95.99
HSTA-IC8 Traveler adaptor for lcom 8-pin	23.99
HSTA-IM Traveler adaptor; lcom modular	23.99
HSTA-K8 Traveler adaptor for Kenwood 8-pin ..	23.99

Heil - continued

HSTA-KM Traveler adaptor; Kenwood modular ..	23.99
HSTA-YM Traveler adaptor for Yaesu modular ..	23.99
HTA-IHT Traveler adaptor for Icom HT	23.99
HTA-KHT Traveler adaptor for Kenwood HT ..	23.99
HTA-VX Traveler adaptor; Yaesu VX HT (not VX7)	23.99
GM-4 Goldline dual element studio mic w/HC-4	145.99
GM-5 Goldline dual element studio mic w/HC-5	145.99
GM-V Goldline vintage studio mic/matching xfmr	145.99
HCL-4 Classic 1930's desk mic/studio el & HC-4	245.99
HCL-5 Classic 1930's desk mic/studio el & HC-5	245.99
HM-10-4 Microphone with HC-4 element	128.99
HM-10-Dual Mic w/HC-4 & HC-5 elements	128.99
ICM Pre-PRO lcom electret mic w/cable	95.99
CC-1-C 3/8" plug cable for Collins/Drake	41.99
CC-1-I 8-pin cable for lcom	35.99
CC-1-I-M Modular cable for lcom	35.99
CC-1-K 8-pin cable for Kenwood	35.99
CC-1-K-M Modular cable for Kenwood	35.99
CC-1-T 4-pin cable for Ten-Tec	35.99
CC-1-Y 8-pin cable for Yaesu	35.99
CC-1-Y-M Modular cable for Yaesu	35.99
PL-2T Topless proline boom	99.99
DT-1 Desk top flush mount	31.99
FL-2 Flange mount for PL-2T	25.99
RS-1 Riser 12" flange mount for PL-2T	25.99
SB-2 Small adjustable mic boom	55.99
HM-4 Handi-Mic hand microphone w/HC-4	85.99
HM-5 Handi-Mic hand microphone w/HC-5	85.99
HM-IC Handi-Mic hand mic/electret element; lco	85.99
HM-PRO Handi-Mic hand mic/broadcast element	85.99
CH-1-I8 8-pin coiled cable for lcom	23.99
CH-1-I-M Modular coiled cable for lcom	23.99
CH-1-K8 8-pin coiled cable for Kenwood	23.99
CH-1-K-M Modular coiled cable for Kenwood	23.99
CH-1-Y-M Modular coiled cable for Yaesu	23.99
PR-20 Cardioid dynamic studio microphone	150.99
PR-40 Broadcast & recording studio microphone	325.99
CC-1-XLR-1 3-pin XLR to 8-pin lcom cable	35.99
WSPR-40 Windscreen for PR-40	17.99
PR-780-PIT Dynamic cardioid studio mic	265.99
CC-1-XLR-1 3-pin XLR to 8-pin lcom cable	35.99
CC-1-XLR-K 3-pin XLR to 8-pin Kenwood cable	35.99
CC-1-XLR-Y 3-pin XLR to 8-pin Yaesu cable	35.99
WSPR-40 Windscreen	17.99
HQP Quiet Phone Noise cancelling headphones	99.99
BAG-2 Leatherette travel bag for HQP	20.99
AD-100 Mic/boomset adapt; FT-100/AD-1Y/CC-1Y	20.99
Boom Clip for BM-series	5.99
CB-1 Classic base	60.99
CB-1-PIT Classic base w/soft PIT switch	70.99
Ea Pads for Pro-Set series	6.99
FS-2 Dual switch foot switch	38.99
Ham Radio Handbook	10.00
HC-4 DX's 'dream machine' mic element	45.99
HC-5 Full-range microphone element	45.99
HD-AT 6db headph attenuator, 1/4"-1/8" adapt	6.99
HS-2 Magnum ergonomic hand switch	29.99
SM-1 Shock mount for any microphone boom	72.99
TM-1 Tri-mount microphone adaptor	14.99
XT-1 Audio matching xfmr; lo-Z mic/tube Xcvr	15.99

HIGH SIERRA (HIS)

Platinum Pack 3.5-60MHz mobile ant w/6' whip	\$545.00
HS-202CL 2" rcvr lay back adaptor; univ mtg bkt	130.00
HS-214CL 1 1/4" rcvr lay back adaptor; univ mtg bkt	130.00
I-Box 7000 Box for IC-7000	110.00
Six Shooter Large capacity hat	70.00
Sidekick 3.5-60MHz mobile ant w/3' whip	395.00
Hitchin Post 3/8"-24 trailer hitch mount	50.00
I-Box 7000 Box for IC-7000	110.00
Six Shooter Large capacity hat	70.00
Stake Hole Mt SO-239 to 3/8"-24 mount	27.00

High Sierra - continued AES Price

Sidekick w/1-box/1-tenna 3.5-60 mob/3' whip; kco	445.00
Hitchin Post 3/8-24 trailer hitch mount	50.00
Six Shooter Large capacity hat	70.00
Stake Hole Mt SO-239 to 3/8-24 mount	27.00
Tripod Deluxe 6' tripod/3/8-24/SO239/8 radials	130.00

HobbyZone (HBZ)

1011 6v 600mah NiMH battery	\$ 6.99
1012 7.2v 900mah NiMH;2500/3500/4000	6.99
1013 8.4v 900mah NiMH;2500/3500/4000	6.99
1026 DC peak charger	4.99
2015 3-hr wall charger for 4000	1.99
4020 Sonic combat module; 2500	4.99
4025 Stealth target/combat module; 2500/4000	2.99
6023 Aerial drop module; 2500/4000	4.99
7809 7.2v 1100mah battery for 7800	9.99

House of Deals (HOU)

FL-307T 9 LED/3 AAA flashlight/carrying case D	\$ 9.99
FL-3232T 32 LED/3 D flashlight	24.99
FL-3211B 11 LED/3 AAA head/bike lamp	9.99
HS-2005A 9 LED/3 AAA flashlight/wrist strap	6.99

HUSTLER (HUS)

RM-80 80m CW 400w PEP resonator	\$ 30.99
RM-75 75m phone 400w PEP resonator	30.99
RM-60 60m phone 400w PEP resonator	30.99
RM-40 40m 400w PEP resonator	28.99
RM-30 30m 400w PEP resonator	28.99
RM-20 20m 400w PEP resonator	25.99
RM-17 17m 400w PEP resonator	25.99
RM-15 15m 400w PEP resonator	18.99
RM-12 12m 400w PEP resonator	18.99
RM-11 CB 400w PEP resonator	18.99
RM-10 10m 400w PEP resonator	18.99
RM-80S 80m CW 2kw PEP resonator	57.99
RM-75S 75m phone 2kw PEP resonator	57.99
RM-40S 40m 2kw PEP resonator	41.99
RM-20S 20m 2kw PEP resonator	32.99
RM-15S 15m 2kw PEP resonator	28.99
RM-11S CB 2kw PEP resonator	27.99
RM-10S 10m 2kw PEP resonator	27.99
MO-1 54" mast for fender or deck mount	36.99
MO-2 54" mast for bumper mount	36.99
MO-3 54" no break-over mast	27.99
MO-4 22" mast for special applications	22.99
VP-1 Tri-band adapter	7.99
RSS-2 Resonator spring	13.99
QD-2 Stainless quick disconnect	24.99
L-14-144 12' RG-58, PL-259 to lugs	9.99
L-14-240 20' RG-58, PL-259 to lugs	12.99

STAINLESS 2" MOBILE BALL MOUNTS

SSM-1 Ball & spring, cadmium hardware	\$ 52.99
SSM-2 Ball, cadmium hardware	32.99
SSM-3 Stainless steel spring	29.99

1-1/2" MOBILE BALL MOUNTS

C-32 Chrome plated ball	\$ 18.99
C-30 Chrome plated spring	14.99
C-29 Stainless steel spring	21.99
BM-1 Single strap bumper mt w/C-32	25.99

3/8-24 THREAD MOBILE MOUNTS

HLM Trunk lip mount w/swivel	\$ 25.99
HOT Hustloff trunk lip mt w/swivel	26.99
MBM Super magnet mount w/16' coax	22.99
RVM Recreational vehicle mount	23.99
THM Trunk lip mount	25.99

HF ANTENNAS

4-BTV 40/20/15/10m 21' trap vertical	\$149.99
5-BTV 80/40/20/15/10m 25' trap vertical	179.99
30-MTK 30m trap kit for 4-BTV/5-BTV	47.99
6-BTV 80/40/30/20/15/10m 24' trap vert	199.99

Hustler - continued AES Price

VHF/UHF BASE STATION ANTENNAS

G3-144 2m 3db 7.5' vertical antenna	\$ 74.99
G6-144B 2m 6db 10' vertical antenna	139.99
G6-270R 2m/440 6db 7.6' base station ant	199.99
G7-144 2m 7db 15' vertical antenna	199.99
G7-220 220 MHz 7db 10' vertical antenna	169.99
G6-440 440 MHz 6db 7' vertical antenna	179.99

VHF/UHF MOBILE ANTENNAS

B8G-144 2m 3.4db NMO coil/whip only	\$ 49.99
B8GT-144 2m 3.4db NMO trunk lip mt ant	56.99
B8G-440-5 440 5db NMO coil/whip only	49.99
B8GT-440-5 440 5db NMO trunk lip mt ant	54.99
BBL-144A 2m 3/4" hole mt antenna, 3.4db	14.99
BBL-144A 2m trunk lip mt ant, 3.4db	19.99
CGT-144 2m 3/4-24 ant, 7" high, 5.2db	36.99
CGT-144 2m trunk mt ant, 7" high, 5.2db	59.99
CG-220 220 MHz 3/4-24 ant, 5.2db	36.99
CGT-220 220 trunk mt ant, 5.2db	59.99
LMB-144 2m 3.4db black NMO coil/whip only	23.99
LMB-440-5 440 5db black NMO coil/whip only	25.99
LMC-144 2m 3.4db NMO coil/whip only	25.99
LMC-270 2m/440 2.4/4db NMO coil/whip only	34.99
LMC-440-5 440 5db NMO coil/whip only	25.99
LMG-144 2m 3.4db NMO pushpin coil/whip only	27.99
LMG-440-5 440 5db NMO pushpin coil/whip only	29.99
MKR-2 Radial kit for CG/RX/SF-antennas	23.99
MX-2 2m 3.4db black & chrome NMO mag ant	37.99
MX-2B 2m 3.4db all black NMO mag mt ant	42.99
MX-220 220 3.4db blk & chrome NMO mag ant	37.99
MX-270 2m/440 2.4/4db chrome NMO mag mt ant	63.99
MX-440 440 5db blk & chrome NMO mag mt ant	49.99
MX-440B 440 5db all black NMO mag mt ant	49.99
RX-2 2m 3.4db magnetic mount ant	28.99
RX-220 220 3.4db magnetic mt antenna	28.99
RX-440 440 5db magnetic mt antenna	28.99
SF-2 2m 3/4-24 ant, 4" high, 3.4 db	17.99
SF-220 220 MHz 3/4-24 antenna, 3.4 db	17.99
THF 140-500 MHz 1/4 wave trunk mount ant	25.99
UGM 140-500 MHz 1/4 wave BNC mag mt ant	23.99
UHT-1 140-500 MHz 1/4 wave roof mt ant	17.99

CB & MONITOR ANTENNAS

1C-11 White trunk mount CB antenna	\$ 14.99
1C-11B Black trunk mt CB antenna	14.99
1C-56 102" stainless whip	19.99
1C-100 White magnetic mount CB antenna	23.99
1C-100B Black magnetic mt CB antenna	23.99
DTG 25' fg double-talk gutter mt CB ant	14.99
FG-27S 48" CB whip	12.99
HQ-27 Power Packer 3/4-24 CB whip	19.99
HQ-27M Power Packer trunk mt CB antenna	39.99
HQD Dual fg mirror mount CB antenna	53.99
HQT Single fg mirror mount CB antenna	29.99
RQM Magnetic mount CB antenna	21.99
RTG-27L 25" CB antenna w/rain gutter mt	28.99
RTM 25" magnetic mount CB antenna	18.99
RTS-27L 25" CB antenna w/roof mount	28.99
SCB/BLK 46" black CB whip	37.99
SCB/RED 46" red CB whip	37.99
SCB/WHI 46" white CB whip	37.99
SCB-S/BLK 35" black CB whip	37.99
SCB-S/RED 35" red CB whip	37.99
SCB-S/WHI 35" white CB whip	37.99
DCL-B Discone monitor ant/50' coax/BNC plug	37.99
DCX Discone monitor ant; 40-700 MHz	25.99
MOR-B Roof/deck mt tri-band BNC monitor ant	19.99
MOT-B Trunk lip mt tri-band BNC monitor ant	21.99
MRM-B Magnet mt tri-band BNC monitor ant	19.99

HY-GAIN (HYG)

HF BEAM ANTENNAS

LI-103BA 3el 7.9db 8' boom 10m beam	\$159.99
-------------------------------------	----------

Hy-Gain - continued AES Price

LI-105CA 5el 10.8db 24' boom 10m beam	289.99
LI-153BA 3el 7.9db 12' boom 15m beam	209.99
LI-204BA 4el 8.2db 26' boom 20 or 17m beam	539.99
TH-3JRS 3el 600w PEP 20/15/10m beam	359.99
TH-3MK4 3el 8db 14' boom 20/15/10m beam	469.99
TH-5MK2 5el 8.3db 19' boom 20/15/10m beam	699.99
TH-7DX 7el 8.7db 24' boom 20/15/10m beam	799.99
BN-86 3-30MHz balun for HF beam	79.99

MULTI-BAND HF VERTICAL ANTENNAS

AV-14AVQ 40/20/15/10m 18' vertical ant	\$169.99
AV-18AVQ II 80/40/20/15/10m vertical ant	229.99
AV-18HT HyTower 80/40/20/15/10m 53' vert T*	949.99

*AV-18HT is drop-shipped (shipped direct to you from the Hy-Gain factory). On these factory drop-shipsments we prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your drop-shipped merchandise. Shipment is FOB Starkville, Mississippi via truck, COD for freight charges only. Freight charges will be collected upon delivery by the carrier. Please allow sufficient time for delivery on these special order items.

AV-18HT-Jr HyTower Jr 40/20/15/10m 39' vert	349.99
AV-620 20/17/15/12/10/6m 22.5' vertical	299.99
AV-640 40/30/20/17/15/12/10/6m 25.5' vert	399.99
DX-88 80/40/30/20/17/15/12/10m 25' vert	369.99

VHF/UHF ANTENNAS

DB-218SAT VHF/UHF Oscar Link system	\$529.99
VB-25FM 5el 11.2db 75" boom 2m beam	59.99
VB-64DX 4el 10.4db 12' boom 6m beam	144.99

ANTENNA ROTORS

AR-40 3 sq ft antenna rotor/5-wire	\$289.99
CD-45-II 8.5 sq ft antenna rotor/8-wire	389.99
HAM-IV 15 sq ft antenna rotor/8-wire	539.99
HAM-V Digital 15 sq ft antenna rotor/8-wire	899.99
HDR-300A Hvy duty dig 25 sq ft rotor/8-wire	1379.99
T-2X Tailtwister 20 sq ft antenna rotor/8-wire	619.99
T-2XD Tailtwister dig 20 sq ft ant rotor/8-wire	979.99

OPTIONAL ACCESSORIES FOR ROTORS

DCU-1 Dig rotor control; CD-45/HAM-IV/T-2X	\$649.99
MSHD Lwr mast support; HAM-IV/T-2X/XD	99.99
MSLD Lower mast support; CD-45-II/AR-40	39.99
TSP-1 Tower spacer plate	34.99

See BELDEN for rotor cable

iBOTZ (IBO)

MR-1001 Soundtracker robot kit	\$ 14.99
MR-1002 Antoid robot kit	19.99

IBS (IBS)

2007 2007 Passport to Worldband Radio	\$ 22.95
---------------------------------------	----------

ICC (ICC)

Nitelogger II Automatic tape recorder activator	\$ 69.99
---	----------

ICOM (ICO)

IC-7800* Dlx 200w HF+6m Xcvr/IF-DSP/tuner/ps	10599.99
--	----------

*Extra \$500 off w/PW-1 same invoice; expires 6/30/07	
(BET) I-Mate Message accessory	74.99
CT-17 CI-V level converter	129.99
HM-36 Scanning hand mic	74.99
SM-20 Deluxe desk microphone	199.99
SP-20 Speaker w/audio filters	239.99
SP-23 Speaker w/audio filters	199.99

IC-756PRO III Xcvr/6m/IF-DSP/tuner/keyer *	\$2699.99
--	-----------

*Price after instant coupon; coupon expires 5/31/07

*Extra \$100 off w/PW-1 same invoice; expires 5/31/07

(BET) I-Mate Message accessory	74.99
PS-125 25A switching power supply	299.99
AH-4 80-6m 120w auto wire ant tuner	259.99
AH-2B Whip w/mt; 40-6m use tuner	349.99
AH-2B extra whip only	149.99
CT-17 CI-V level converter	129.99

Icom - continued

AES Price

HM-36 Scanning hand mic	74.99
OPC-025D Extra DC cable	29.99
SM-20 Deluxe desk microphone	199.99
SP-20 Speaker w/audio filters	239.99
SP-23 Speaker w/audio filters	199.99
UT-102 Voice synthesizer	74.99
IC-746PRO XcvRcv/6m/2m/IF-DSP/tuner/mic ... *1499.99	
*Price after mail-in rebate; rebate ends 6/30/07	
*Price after instant coupon; coupon expires 6/30/07	
PS-125 ps FREE with IC-746PRO! thru 6/30/07	
(BET) I-Mate Message accessory	74.99
PS-125 25A switching power supply	299.99
AH-4 80-6m 120w auto wire ant tuner	259.99
AH-2B Whip w/m/t; 40-6m use tuner	349.99
AH-2B extra whip only	149.99
CR-338 High stability crystal unit	81.99
CT-17 CI-V level converter	129.99
HM-36 Scanning hand mic	74.99
OPC-025D Extra DC cable	29.99
SM-20 Deluxe desk microphone	199.99
SP-20 Speaker w/audio filters	239.99
SP-23 Speaker w/audio filters	199.99
UT-102 Voice synthesizer	74.99
IC-718 HF Xcvr/SW Rcvr/mic w/DSP ... *549.99	
*Price after mail-in rebate; rebate ends 6/30/07	
(BET) 706 Tune Control for IC-718	32.99
(W4R) DBF-703/718-DIY CW&SB Collins filts	240.99
PS-125 25A switching power supply	299.99
AH-4 80-6m 120w auto wire ant tuner	259.99
AH-2B Whip w/m/t; 40-6m use tuner	349.99
AH-2B extra whip only	149.99
AT-180 Auto coax antenna tuner; HF+6m	369.99
OPC-598 23' extension cable; AT-180	73.99
CR-338 High stability crystal unit	81.99
CT-17 CI-V level converter	129.99
FL-52A 500 Hz 455 KHz IF CW filter	179.99
FL-53A 250 Hz 455 KHz IF CW filter	179.99
FL-222 1.9 KHz 455 KHz IF SSB filter	199.99
FL-257 3.3 KHz 455 KHz IF SSB filter	199.99
Suggest dealer installation of filters in IC-718	
MB-5 Mobile mount	59.99
MB-23 Side mount carrying handle	15.99
OPC-025D Extra DC cable	29.99
OPC-599 7+8-pin to 13-pin adapter	60.99
SM-20 Deluxe desk microphone	199.99
SP-10 Slim-line external speaker	69.99
SP-20 Speaker w/audio filters	239.99
SP-23 Speaker w/audio filters	199.99
UT-102 Voice synthesizer	74.99
UT-106 Plug-in DSP unit	139.99
IC-703PS 10w mini HF+6m Xcvr/tuner/DSP ... *679.99	
*Price after mail-in rebate; 4/1/07 thru 6/30/07	
(W4R) DBF-703/718-DIY CW&SB Collins filts	240.99
AH-4 80-6m 120w auto wire ant tuner	259.99
AH-2B Whip w/m/t; 40-6m use tuner	349.99
AH-2B extra whip only	149.99
AH-703 40/20/15/10/6m 20w 4.6' antenna	199.99
BC-155A Battery charger for BP-228	29.99
BP-228 9.6v 2800mah external nicad pack	89.99
CT-17 CI-V level converter	129.99
FL-52A 500 Hz 455 KHz IF CW filter	179.99
FL-53A 250 Hz 455 KHz IF CW filter	179.99
FL-222 1.9 KHz 455 KHz IF SSB filter	199.99
FL-257 3.3 KHz 455 KHz IF SSB filter	199.99
Suggest dealer installation of filters in IC-703 series	
HM-154T TTP microphone	75.99
LC-156 Back pack carrying case	99.99
MB-62 Mounting bracket for main unit	25.99
MB-63 Mounting bracket for control panel	18.99
MB-65 Mounting base platform	43.99
MB-72 Carrying handle	14.99
OPC-581 11.5' separation cable	60.99

Icom - continued

AES Price

OPC-587 16' separation cable	79.99
OPC-599 7+8-pin to 13-pin adapter	60.99
OPC-742 13-pin cable	60.99
OPC-1229 Extra DC cable	28.99
OPC-1248 IC-703 to PS-125 cable	14.99
RMK-706 Package; MB-62/MB-63/OPC-581	70.99
SM-20 Deluxe desk microphone	199.99
OPC-589 8-pin to jack adapter; SM-6/8/20	35.99
SP-10 Slim-line external speaker	69.99
UT-102 Voice synthesizer	74.99
IC-706 Mk II-G Mini HF Xcvr/6m/2m/440/DSP ... *899.99	
*Price after mail-in rebate; rebate ends 6/30/07	
RMK-706 FREE with IC-706 Mk II-G! thru 6/30/07	
(BET) 706 Tune Control for IC-706 series	32.99
(W4R) Antenna Boss II interface; not at IC706	149.99
PS-125 25A switching power supply	299.99
AH-4 80-6m 120w auto wire ant tuner	259.99
AH-2B Whip w/m/t; 40-6m use tuner	349.99
AH-2B extra whip only	149.99
AT-180 Auto coax antenna tuner; HF+6m	369.99
OPC-598 23' extension cable; AT-180	73.99
CR-282 High stability crystal unit; Mk II-G	149.99
Suggest dealer install; CR-282, IC-706 Mk II-G	
CT-17 CI-V level converter	129.99
FL-100 500 Hz 9 MHz IF CW filter	119.99
FL-101 250 Hz 9 MHz IF CW filter	119.99
FL-103 2.8 KHz 9 MHz IF SSB filter	109.99
FL-223 1.9 KHz 9 MHz IF SSB filter	99.99
FL-232 350 Hz 9 MHz IF CW/RTTY filter	89.99
HM-154T TTP microphone	75.99
LC-156 Back pack carrying case	99.99
MB-62 Mounting bracket for main unit	25.99
MB-63 Mounting bracket for control panel	18.99
MB-65 Mounting base platform	43.99
MB-72 Carrying handle; Mk II-G only	14.99
OPC-025D Extra DC cable	29.99
OPC-581 11.5' separation cable	60.99
OPC-587 16' separation cable	79.99
OPC-599 7+8-pin to 13-pin adapter	60.99
OPC-742 13-pin cable	60.99
RMK-706 Package; MB-62/MB-63/OPC-581	70.99
SM-20 Deluxe desk microphone	199.99
OPC-589 8-pin to jack adapter; SM-6/8/20	35.99
SP-10 Slim-line external speaker	69.99
UT-102 Voice synthesizer	74.99
IC-7000 Deluxe mini HF/6m/2m/440 Xcvr ... *1299.99	
*Price after instant coupon; coupon expires 5/31/07	
RMK-7000 FREE with IC-7000! thru 5/31/07	
(W4R) Antenna Boss II interface; not at IC7000	149.99
AH-4 80-6m 120w auto wire ant tuner	259.99
AH-2B Whip w/m/t; 40-6m use tuner	349.99
AH-2B extra whip only	149.99
AT-180 Auto coax antenna tuner; HF+6m	369.99
OPC-598 23' extension cable; AT-180	73.99
CT-17 CI-V level converter	129.99
HM-154T TTP microphone	75.99
LC-156 Back pack carrying case	99.99
MB-62 Mounting bracket for main unit	25.99
MB-65 Mounting base (MB-105 required)	43.99
MB-105 Remote head bracket	20.99
MB-106 Carry handle	20.99
OPC-599 7+8-pin to 13-pin adapter	60.99
OPC-742 13-pin cable	60.99
OPC-1443 11.5' remote cable	60.99
OPC-1444 16' remote cable	80.99
OPC-1457 Extra DC cable	28.99
RMK-7000 Package; MB-62, MB-105, OPC-1443	95.99
SM-20 Deluxe desk microphone	199.99
OPC-589 8-pin to jack adapter; SM-6/8/20	35.99
SP-10 Slim-line external speaker	69.99
AH-710 1.9-30 MHz 80' folded dipole/98' coax	269.99

Icom - continued

AES Price

PW-1 160-15+6m linear amplifier/ps/tuner		4699.99
RECEIVERS		
R-5-06 15M-1.3G AM/FM hand/batts/cgr/cell bkld		*189.99
*Price after mail-in rebate; rebate ends 6/30/07		
R-5-11* HH Rcvr/restricted sales! special order		199.99
AD-925MA SMA- BNC adapter		16.99
CP-18A Cig lighter cable		30.99
CS-R5 Win programming software		40.99
OPC-474 Cloning cable (R-5 to R-5)		18.99
OPC-478 PC RS-232C cable		45.99
OPC-478U/UC PC USB cable		60.99
HP-4 Lightweight headphones		29.99
LC-146A Carrying case		24.99
SP-13 Earphone		4.99
R-3-26 5M-2.45G AM/FM/TV hand Rcvr/cell bkld		*334.99
*Price after mail-in rebate; rebate ends 6/30/07		
R-3-27* Rcvr/TV/restricted sales! special order		489.99
BC-135 Desktop charger w/adapter cup		80.99
BP-206 Extra 3.7v 1650mah lith ion batt		63.99
CP-18A Cig lighter cable		30.99
CS-R3 Win programming software		24.99
OPC-474 Cloning cable (R-3 to R-3)		18.99
OPC-478 PC RS-232C cable		45.99
OPC-478U/UC PC USB cable		60.99
HP-4 Lightweight headphones		29.99
LC-151 Carrying case		24.99
SP-13 Earphone		4.99
R-20-06 150KHz-3.3G handheld Rcvr/cell bkld		*484.99
*Price after mail-in rebate; rebate ends 6/30/07		
R-20-11* Rcvr/restricted sales! special order		509.99
BC-156-02 Desktop charger		80.99
BP-206 Extra 3.7v 1650mah lith ion batt		63.99
CP-18A Cig lighter cable		30.99
CS-R20 Cloning software/USB cable; R-20		56.99
CT-17 CI-V level converter		129.99
LC-158 Carrying case		29.99
MB-86 Swivel belt clip		9.99
SP-13 Earphone		4.99
PCR-1000-07 BON* PC Rcvr/restricted sales! D		299.99
AH-7000 25-1000 MHz discone ant w/coax		169.99
OPC-131 DC power cord		13.99
SP-10 Slim-line external speaker		69.99
UT-106 Plug-in DSP unit		139.99
PCR-1500-25 PC control Receiver/cell bkld		*479.99
*Price after mail-in rebate; 4/1/07 thru 6/30/07		
PCR-1500-30* PC Rcvr/restricted sales! spec order		499.99
AH-7000 25-1000 MHz discone ant w/coax		169.99
CP-12L Right angle cig cable w/filter		36.99
OPC-254L Right angle mini DC pwr cable		14.99
OPC-441 16.4' speaker extension cable		33.99
SP-10 Slim-line external speaker		69.99
UT-106 Plug-in DSP unit		139.99
R-1500-05 Receiver w/remote head/cell bkld		*579.99
*Price after mail-in rebate; 4/1/07 thru 6/30/07		
R-1500-10* Rcvr/restricted sales! special order		599.99
AH-7000 25-1000 MHz discone ant w/coax		169.99
CP-12L Right angle cig cable w/filter		36.99
OPC-254L Right angle mini DC pwr cable		14.99
OPC-441 16.4' speaker extension cable		33.99
SP-10 Slim-line external speaker		69.99
UT-106 Plug-in DSP unit		139.99
PCR-2500-25 Advanced PC ctrl Rcvr/cell bkld		*709.99
*Price after mail-in rebate; 4/1/07 thru 6/30/07		
FREE UT-122 with PCR-2500-25 thru 6/30/07!		
PCR-2500-30* PC Rcvr/restricted sales! spec order		849.99
AH-7000 25-1000 MHz discone ant w/coax		169.99
CP-12L Right angle cig cable w/filter		36.99
OPC-254L Right angle mini DC pwr cable		14.99
OPC-441 16.4' speaker extension cable		33.99
SP-10 Slim-line external speaker		69.99
UT-106 Plug-in DSP unit		139.99

Icom - continued

AES Price

UT-108 DTMF decoder unit	35.99
UT-118 Digital board	199.99
UT-122 P-25 digital board	199.99
R-2500-05 Advanced Rcvr w/rem head/cell bld. *879.99	
*Price after mail-in rebate; 4/1/07 thru 6/30/07	
FREE UT-122 with R-2500-05 thru 6/30/07!	
R-2500-10 Rcvr/restricted sales! special order	999.99
AH-7000 25-1000 MHz discone ant w/coax	169.99
CP-12L Right angle cig cable w/filter	36.99
OPC-254L Right angle mini DC pwr cable	14.99
OPC-441 16.4' speaker extension cable	33.99
SP-10 Slim-line external speaker	69.99
UT-106 Plug-in DSP unit	139.99
UT-108 DTMF decoder unit	35.99
UT-118 Digital board	199.99
UT-122 P-25 digital board	199.99
BON CS-40 Bonito soft; PCR-1000-02/07	68.99
CS-R2 DOS programming software; R-2 .....	.49
CS-R10 DOS programming software; R-10 .....	.49
FA-B01RE Extra BNC duck antenna	9.99
FA-B02RE High sensitivity VHF BNC duck	9.99
LC-140 Carrying case for R-10	4.99
R-75 .03-60 MHz SW Rcvr/DSP/sync AM	599.99
CR-282 High stability crystal unit	149.99
CT-17 CI-V level converter	129.99
FL-52A 500 Hz 455 KHz IF CW filter	179.99
FL-53A 250 Hz 455 KHz IF CW filter	179.99
FL-100 500 Hz 9 MHz IF CW filter	119.99
FL-101 250 Hz 9 MHz IF CW filter	119.99
FL-103 2.8 KHz 9 MHz IF SSB filter	109.99
FL-222 1.9 KHz 455 KHz IF SSB filter	199.99
FL-223 1.9 KHz 9 MHz IF SSB filter	99.99
FL-232 350 Hz 9 MHz IF CW/RTTY filter	89.99
FL-257 3.3 KHz 455 KHz IF SSB filter	199.99
MB-5 Mobile mount	59.99
MB-23 Side mount carrying handle	15.99
OPC-869 DC cable	55.99
RS-R75 PC control software w/RS-232 cable	80.99
OPC-478 PC RS-232C cable	45.99
SP-23 Speaker w/audio filters	199.99
UT-102 Voice synthesizer	74.99
R-8500 Rcvr/restricted sales! special order	1699.99
AH-7000 25-1000 MHz discone ant w/coax	169.99
CR-293 High stability xtal unit	289.99
FL-52A 500 Hz CW filter	179.99
MB-12 Mobile mount; R-8500	59.99
MB-23 Side mount carrying handle	15.99
RS-R8500 PC control software w/RS-232 cbl	80.99
SP-23 Speaker w/audio filters	199.99
UT-102 Voice synthesizer	74.99
R-9500-02 Deluxe Receiver special order	13500.00
R-9500-06 Rcvr/restricted sales! special order	13500.00
*United States government agencies ONLY may purchase unblocked models of PCR-1000/PCR-1500/PCR-2500/R-3/R-5/R-20/R-1500/R-2500/R-8500/R-9500 for official government use only. Mail or FAX purchase order to AES. Exports: inquire.	
BC-96 Wireless mic holder; IC-2100H	14.99
CS-2100 DOS cloning software; IC-2100H	6.99
CSW-2100 Win prog soft/cable; IC-2100H	29.99
HM-90A Wireless microphone; IC-2100H	49.99
HM-133S Extra TTP mic; IC-2100H	89.99
MB-28H Mobile bkt; 2100H/207H/2800H	19.99
OPC-346 9.8' DC cable; 2100H/207H/2800H	28.99
IC-2200H 65w 2m FM Xcvr w/WX alert	*139.99
*Price after mail-in rebate; rebate ends 6/30/07	
CS-2200H Windows cloning software	80.99
OPC-478 PC RS-232C cable	45.99
OPC-478U/UC PC USB cable	60.99
MB-17A Quick release bracket	49.99
OPC-347 23' DC cable	46.99

Icom - continued

AES Price

OPC-440 16.4' mic extension cable	85.99
OPC-441 16.4' speaker extension cable	33.99
OPC-474 Radio to radio cloning cable	18.99
OPC-589 8-pin mic jack adapter cable	35.99
OPC-1132 9.8' DC cable	28.99
SP-10 Slim-line external speaker	69.99
UT-108 DTMF decoder unit	35.99
UT-118 Digital board	199.99
IC-V8000 75w 2m FM Xcvr w/WX alert/scan	*179.99
*Price after mail-in rebate; rebate ends 6/30/07	
CS-V8000 Windows cloning software	35.99
OPC-478 PC RS-232C cable	45.99
OPC-478U/UC PC USB cable	60.99
OPC-347 23' DC cable	46.99
OPC-440 16.4' mic extension cable	85.99
OPC-441 16.4' speaker extension cable	33.99
OPC-474 Radio to radio cloning cable	18.99
OPC-589 8-pin mic jack adapter cable	35.99
OPC-1132 9.8' DC cable	28.99
SP-10 Slim-line external speaker	69.99
UT-108 DTMF decoder unit	35.99
V8000-MMB Extra mobile bracket	26.99
IC-208H 55w 2m/50w 440 FM Xcvr/WX alert	*254.99
*Price after mail-in rebate; rebate ends 6/30/07	
*Price after instant coupon; coupon expires 6/30/07	
CS-208 Win cloning software	35.99
OPC-478 PC RS-232C cable	45.99
OPC-478U/UC PC USB cable	60.99
MB-17A Quick release bracket	49.99
MB-58 Remote controller bracket	39.99
MB-65 Mounting base platform	43.99
OPC-347 23' DC cable	46.99
OPC-440 16.4' mic extension cable	85.99
OPC-441 16.4' speaker extension cable	33.99
OPC-474 Radio to radio cloning cable	18.99
OPC-589 8-pin mic jack adapter cable	35.99
OPC-601R 23' separation cable	67.99
OPC-1132 9.8' DC cable	28.99
SP-10 Slim-line external speaker	69.99
IC-2720H 50w 2m/35w 440 FM/WX alert	*329.99
*Price after mail-in rebate; rebate ends 6/30/07	
*Price after instant coupon; coupon expires 6/30/07	
CS-2720 Win/DOS cloning software	35.99
OPC-478 PC RS-232C cable	45.99
OPC-478U/UC PC USB cable	60.99
MB-17A Quick release bracket	49.99
MB-84 Extra remote controller bracket	18.99
MB-65 Mounting base platform	43.99
MB-85 Combination bracket	25.99
OPC-347 23' DC cable	46.99
OPC-440 16.4' mic extension cable	85.99
OPC-441 16.4' speaker extension cable	33.99
OPC-474 Radio to radio cloning cable	18.99
OPC-589 8-pin mic jack adapter cable	35.99
OPC-1132 9.8' DC cable	28.99
OPC-1156 11.5' separation cable	13.99
SP-10 Slim-line external speaker	69.99
IC-2820H 50w 2m/50w 440 FM Xcvr	649.99
CS-2820 Win cloning software	35.99
OPC-478 PC RS-232C cable	45.99
OPC-478U/UC PC USB cable	60.99
MB-65 Mounting base platform	43.99
OPC-347 23' DC cable	46.99
OPC-440 16.4' mic extension cable	85.99
OPC-441 16.4' speaker extension cable	33.99
OPC-474 Radio to radio cloning cable	18.99
OPC-589 8-pin mic jack adapter cable	35.99
OPC-1132 9.8' DC cable	28.99
OPC-1529R Data communications cable	25.99
SP-10 Slim-line external speaker	69.99
UT-123 DV mode & GPS receiver	299.99

Icom - continued

AES Price

IC-910H 100w 2m/75w 430 FM/SSB Xcvr	1279.99
PS-125 25A switching power supply	299.99
AG-25 2m mast mounted GaSfET preamp	159.99
AG-35 430 MHz mast mounted preamp	169.99
CR-293 High stability xtal unit	289.99
CT-17 CI-V level converter	129.99
FL-132 500 Hz main Rcvr CW filter	119.99
FL-133 500 Hz sub band Rcvr CW filter	119.99
MB-5 Mobile mount	59.99
MB-23 Side mount carrying handle	15.99
SM-20 Deluxe desk microphone	199.99
SP-10 Slim-line external speaker	69.99
UT-102 Voice synthesizer	74.99
UT-106 Plug-in DSP unit (one per band)	139.99
UX-910 10w 1.2GHz module	529.99
ID-1 10w 1.2GHz FM/128k analog/digital Xcvr	*979.99
*Price after mail-in rebate; rebate ends 6/30/07	
MB-17A Quick release bracket	49.99
OPC-347 23' DC cable	46.99
OPC-440 16.4' mic extension cable	85.99
OPC-1132 9.8' DC cable	28.99
SP-10 Slim-line external speaker	69.99
ID-800 55w 2m/50w 440 FM analog/dig Xcvr	*609.99
*Price after mail-in rebate; rebate ends 6/30/07	
CS-D800 Cloning software	45.99
OPC-478 PC RS-232C cable	45.99
OPC-478U/UC PC USB cable	60.99
MB-17A Quick release bracket	49.99
OPC-347 23' DC cable	46.99
OPC-440 16.4' mic extension cable	85.99
OPC-441 16.4' speaker extension cable	33.99
OPC-601R 23' separation cable	67.99
OPC-1132 9.8' DC cable	28.99
OPC-1384 RS-232C data cable	35.99
SP-10 Slim-line external speaker	69.99
IC-91A 5w 2m/440 D-Star upgradeable HT	329.99
UT-121 Digital board for D-Star	199.99
IC-91AD 5w 2m/440 D-Star compatible HT	449.99
AD-925MA SMA-BNC adapter	16.99
BC-139 Desk rapid charger	94.99
BP-216 Battery case for 2 AA	35.99
BP-217 7.4v 1300mah lith ion battery	89.99
CP-19R Cig lighter cable w/filter	44.99
HM-75A Remote control microphone	70.99
HM-128 Earphone+microphone	25.99
HM-131 Sprk/mic/earph jack/revolving clip	38.99
HS-85 Headset w/VOX	89.99
LC-163 Carrying case	36.99
OPC-474 Cloning cable (radio to radio)	18.99
OPC-782 Plug adapt cable; HS85/SP13	16.99
RS-91 Rem control software/RS-232 cable	55.99
SP-13 Earphone	4.99
D-STAR REPEATERS	
ID-RP2C Repeater controller	1459.99
ID-RP2D 1.2GHz data module special order	1112.99
ID-RP2C/2D Rptr controller/data rptr spec order	2297.99
ID-RP2L 10GHz backbone rptr special order	5209.99
ID-RP2V 1.2GHz voice repeater special order	1559.99
ID-RP2C/2V Rptr controller/voice rptr spec order	2969.99
ID-RP2D/V Complete D/V rptr package spec order	4119.99
ID-RP2D/V+Link D/V+link rptr pack spec order	9904.99
ID-RP2000V 2m voice repeater	1399.99
ID-RP4000V 440MHz voice repeater	1399.99
IC-V8 Sport 5.5w 2m FM HT/alkaline case	99.99
BC-119-N01 Desk fm chat (adapter required)	65.99
AD-94-11 Adapter cup; BC-119-N01	10.99
AD-101 Batt adapt; BP-211N/BC-119-N01	18.99
BC-144N/BC144N51 Rapid desk charger	60.99
BP-208N Battery case	18.99
BP-209N 7.2v 1100mah 5.5w battery	40.99
BP-210N 7.2v 1650mah 5.5w battery	50.99

Icom - continued

AES Price

BP-211N 7.4v 1800mah lith ion battery	75.99
BP-222N 7.2v 600mah 5.5w battery	35.99
CP-17L Right angle cig cable for charger	24.99
CS-V8 Cloning software for IC-V8	35.99
OPC-474 Cloning cable (V8 to V8)	18.99
OPC-478 PC RS-232C cable	45.99
OPC-478U/UC PC USB cable	60.99
HM-46L Slim-line spkr/mic, rt angle plug	45.99
HM-54 Hvy duty spkr/mic	79.99
HM-75A Remote control microphone	70.99
HM-128L Rt angle plug earphone+mic	25.99
HM-158L Rt angle spkr/mic/earph jack/clip	42.99
HS-51 Headset w/VOX	96.99
HS-94 Ear-piece style headset; use w/VS-1L	24.99
VS-1L Right angle VOX-PTT unit for HS-94	42.99
LCF3G Swivel Leather case with swivel	50.99
MB-74N Spring loaded belt clip; orig batts	12.99
MB-86 Swivel belt clip; N-series batteries	9.99
MB-87 Swivel belt clip; original batteries	6.99
MB-103 Spring loaded belt clip; N-series batts	12.99
OPC-515L Right angle DC cord for charger	20.99
SP-13 Earphone	4.99
UT-108 DTMF decoder unit	35.99
IC-V82 7w 2m FM HT/battery/charger	*119.99
*Price after mail-in rebate; rebate ends 6/30/07	
IC-V82 5w 440 FM HT/battery/charger	*119.99
*Price after mail-in rebate; rebate ends 6/30/07	
BC-119-N01 Desk charger (adapter required)	65.99
AD-94-11 Adapter cup; BC-119-N01	10.99
AD-101 Batt adapt; BP-211N/BC-119-N01	18.99
BC-144N/BC144N51 Rapid desk charger	60.99
BP-208N Battery case	18.99
BP-209N 7.2v 1100mah 5.5w battery	40.99
BP-210N 7.2v 1650mah 5.5w battery	50.99
BP-211N 7.4v 1800mah lith ion battery	75.99
BP-222N 7.2v 600mah 5.5w battery	35.99
CS-V82 Cloning software for IC-V82/U82	40.99
OPC-474 Cloning cable (HT to HT)	18.99
OPC-478 PC RS-232C cable	45.99
OPC-478U/UC PC USB cable	60.99
HM-46 Slim-line speaker/mic	45.99
HM-54 Heavy duty spkr/mic	79.99
HM-75A Remote control microphone	70.99
HM-128L Rt angle plug earphone+mic	25.99
HM-158L Rt angle spkr/mic/earph jack/clip	42.99
HS-85 Headset w/VOX	89.99
HS-94 Ear-piece style headset; use w/VS-1L	24.99
VS-1L Right angle VOX-PTT unit for HS-94	42.99
MB-86 Swivel belt clip	9.99
MB-103 Spring loaded belt clip; N-series batts	12.99
SP-13 Earphone	4.99
UT-108 DTMF decoder unit	35.99
UT-118 Digital board	199.99
IC-V85 7w 2m FM HT/lith ion/charger	199.99
CP-19R Cig lighter cable w/filter	44.99
OPC-474 Cloning cable (HT to HT)	18.99
OPC-478U/UC PC USB cable	60.99
HM-75A Remote control microphone	70.99
HM-128L Rt angle plug earphone+mic	25.99
HM-158L Rt angle spkr/mic/earph jack/clip	42.99
HS-85 Headset w/VOX	89.99
HS-94 Ear-piece style headset; use w/VS-1L	24.99
VS-1L Right angle VOX-PTT unit for HS-94	42.99
SP-13 Earphone	4.99
UT-108 DTMF decoder unit	35.99
IC-V7H Sport 6w 2m/440 FM HT/alkaline case	169.99
IC-V73A 5w 2m/440 FM HT	249.99
AD-51 Batt pack adapt; W32A/rapid cgr	9.99
AD-56 Batt pack adapt; T7H/T22A/rapid cgr	18.99
BC-110A/BC-74 Extra wall charger	25.99
BC-119-N11 Nicad/NiMH desk cgr (use adapt)	89.99
BP-170 Battery case	35.99

Icom - continued

AES Price

BP-172 4.8v 950mah battery	91.99
BP-173 9.6v 600mah battery	119.99
BP-180 7.2v 600mah battery	83.99
CP-12 Cig lighter cable w/filter	36.99
CP-12L Right angle cig cable w/filter	36.99
CSW-HH4 Windows prog soft/cbl; T7HW32A	50.99
OPC-474 Cloning cable	18.99
OPC-478 PC RS-232C cable	45.99
FA-1443B Extra 2m/440 dual band duck	29.99
HM-46 Slim-line speaker/mic	45.99
HM-54 Heavy duty spkr/mic	79.99
HM-75A Remote control microphone	70.99
HM-128 Earphone+microphone	25.99
HM-131 Spkr/mic/earph jack/revolving clip	38.99
HS-10 Boom mic/headset	29.99
HS-10SA VOX unit	39.99
HS-85 Headset w/VOX	89.99
HS-94 Ear-pc headset; use w/VS-1	24.99
VS-1 VOX-PTT unit for HS-94	42.99
LC-128 Vinyl case; IC-W32A	38.99
LC-136 Vinyl case; T7H w/BP170/T171/T72 D	24.99
LC-137 Vinyl case; T7H w/BP173/180	38.99
NCP-1 Nylon chest pack	39.99
OPC-254L Right angle mini DC pwr cable	14.99
SP-13 Earphone	4.99
AD-28 Batt pack adapt for rapid cgr; 2GXAT D	4.99
AD-44 Batt adapter; rapid cgr; T21A	19
AD-81 Batt adapter for rapid cgr; IC-T2H	17.99
AD-87 Batt pack adapter; rapid cgr; T81A	8.99
AD-88 PCB board; original BC-119-11	29.99
BC-119-N21 Nicad/NiMH desk cgr (use adapt); T81A	99.99
BC-127A Extra nicad charger; IC-Q7	99
BC-133 Drop-in trickle charger; IC-T2H	29.99
BC-122A AC adapter for BC-133	14.99
BM-112U/BC-16U Wall cgr; BP5A/7/8; IC-2AT	14.99
BP-83 7.2v 600mah battery	69.99
BP-90 AA alkaline battery case	35.99
BP-194 AA alkaline battery case; IC-T2H	18.99
BP-195 9.6v 700mah nicad batt; IC-T2H	29.99
BP-196 9.6v 1050mah nicad batt; IC-T2H	39.99
BP-200L 9.6v 760man/NiMH battery; T81A	79.99
CP-1 Cig cgr; BP-3/7/8/DC cord; IC-2AT	14.99
LC-145 Carrying case for IC-T2H	29.99
LCF3 Swivel Leather case w/swivel; IC-T2H	29.99
IC-T90A 5w 6m/2m/440 FM HT/lith ion	*249.99
*Price after mail-in rebate; rebate ends 6/30/07	
AD-92SMA SMA-BNC adapter	16.99
BC-139 Desk rapid charger	94.99
BP-216 Battery case for 2 AA	35.99
BP-217 7.4v 1300mah lith ion battery	89.99
CP-19R Cig lighter cable w/filter	44.99
CS-T90A Windows cloning software; IC-T90A	35.99
OPC-474 Cloning cable (radio to radio)	18.99
OPC-478 PC RS-232C cable	45.99
OPC-478U/UC PC USB cable (XP only)	60.99
HM-46 Slim-line speaker/mic	45.99
HM-75A Remote control microphone	70.99
HM-128 Earphone+microphone	25.99
HM-131 Spkr/mic/earph jack/revolving clip	38.99
HS-85 Headset w/VOX	89.99
HS-94 Ear-pc headset; use w/VS-1	24.99
VS-1 VOX-PTT unit for HS-94	42.99
LC-152 Carrying case	24.99
MB-83 Swivel belt clip	9.99
SP-13 Earphone	4.99
IC-P7A 1.5w 2m/1w 440 FM submini HT/lith ion	*229.99
*Price after mail-in rebate; 4/1/07 thru 6/30/07	
BP-243 3.7v 1800mah lith ion battery	56.99
CP-21LR Cig cable w/filter	56.99
CS-P7 Windows cloning software	35.99
OPC-474 Cloning cable (radio to radio)	18.99

Icom - continued

AES Price

OPC-478 PC RS-232C cable	45.99
OPC-478U/UC PC USB cable	60.99
HM-128 Earphone+microphone	25.99
HM-131 Spkr/mic/earph jack/revolving clip	38.99
LC-161 Carrying case	36.99
OPC-782 Plug adapter cable for SP-13	16.99
SP-13 Earphone	4.99

ACCESSORIES

AG-25 2m mast mounted GaSFET preamp	\$159.99
AG-35 430 MHz mast mounted preamp	169.99
CT-17 CI-V level converter	129.99
HM-12 Scan hand microphone	74.99
MB-23 Side mount carrying handle	15.99
OPC-137 Adapter cable; older Icom Xcvr	4.99
PS-125 25A switching power supply	299.99
SM-20 Deluxe desk microphone	199.99
SP-5 Mobile speaker	39.99
SP-10 Slim-line external speaker	69.99
SP-20 Speaker w/audio filters	239.99
SP-23 Speaker w/audio filters	199.99

CONSUMER ELECTRONICS

A-24-LI 5w air handheld w/lith ion battery	\$379.99
IC-F21-GM 15 ch 4w GMRS/FRS handheld	129.99
IC-M32 Waterproof 5w VHF marine handheld	D 149.99
IC-M72 Waterproof 6w VHF marine handheld	199.99
IC-M302W02 White waterproof 25w VHF marine	D 159.99
IC-M402W02 White waterproof 25w VHF marine	D 139.99
M-710 (21) 150w HF marine SSB spec order	1399.99
AT-130 HF marine auto ant tuner spec order	449.99
M-802 150w DSP marine SSB Xcvr spec order	1749.99

IDION PRESS (IDI)

K-5 Logique CW keyer	\$149.99
HK-3 Hook-up kit	10.99

International Ant (IAC)

80m-S 80m half sloper 67' antenna	\$ 59.99
40m-S 40m half sloper 33' antenna	\$ 29.99

ISOTRON (ISO)

160C 160m 9.5"x16"x15" 100 kHz bandwidth ant	\$173.99
80 80m 32"x16"x15" 110 kHz bandwidth ant	109.99
40 40m 22"x16"x15" 250 kHz bandwidth ant	88.99
20 20m 21"x8"x4" 350 kHz bandwidth ant	78.99
15 15m 21"x1.5"x4" 450 kHz bandwidth ant	78.99
10 10m 16"x1.5"x4" 1 MHz bandwidth ant	78.99
6 6m 16.5"x2"x4" 1.25 MHz bandwidth ant	78.99
80/40 Combo 80/40m 32"x16"x30" ant	188.99
40/20 Combo 40/20m combo antenna	167.99
20/15/10 Combo 20/15/20m combo ant	198.99

JR (JRP)

317275 X33 synth FM pistol/1-Z590M1-Z270 75M	\$129.99
SP-100 SC-1 fwd/rev speed control	29.99

K-COM (KCO)

RF-1 Modular telephone 3-30 MHz RFI filter	\$ 16.99
RF-1/Low Modular phone 5-3 MHz RFI filter	16.99
RF-1/2-line 2-line modular 3-30 MHz RFI filter	22.99
RF-1/coiled Coiled cord modular 3-30MHz filter	22.99
RF-2 Hard-wired telephone 3-30 MHz RFI filter	10.99
RF-2/Low Hard-wired phone 5-3 MHz RFI filter	10.99

KNK Marketing (KNK)

RLG 2007 So CA rpttr listings/SW USA rpttr map	\$ 5.00
--	---------

KANTRONICS (KAN)

KPC-3 Plus/128K Small packet TNC/128K RAM	\$218.99
KPC-9612 Plus/128K 9600 controller/128K ...	410.99
(CSS) Pacterm for Windows Softs Kan TNCs	99.99
12VDC Adapter 300ma adaptor	19.99
APRS adapter cable: GPS to Kantronics TNC D	29.99
Host Master II+ IBM software	49.99

Kantronics - continued AES Price

KAM 98 Single port multi-mode dig controller D (CSS) Pactern for Windows Soft; Kan TNCs	349.99
12VDC Adaptor 300ma adaptor	99.99
APRS adapter cable; GPS to Kantronics TNC D	19.99
KAM XL All mode TNC w/DSP soft	29.99
(CSS) Pactern for Windows Soft; Kan TNCs	425.99
12VDC Adaptor 300ma adaptor	99.99
APRS adapter cable; GPS to Kantronics TNC D	19.99
MT-1200 Mobile Tracker TNC for external NMEA GPS	239.99
MT-1200G Mobile Tracker TNC w/GPS/antenna	299.99

KENT (KNT)

SK-1 Straight key	\$129.99
SP-1 Single paddle key	139.99
TP-1 Dual paddle iambic key	149.99
VK-1 Vail Correspondent straight key	179.99

KENWOOD (KEN)

SP-950 Ext spkr/audio filters; TS-950SDX	149.99
TS-B2000 PC cti HF/6m/2m/430 Xcvr/tuner	*1399.99
*Price after instant coupon; coupon expires 4/30/07	
TS-2000 HF/6m/2m/430 Xcvr/ant tuner	*1614.99
*Price after instant coupon; coupon expires 4/30/07	
UT-20 1.2GHz module Kenwood install only	
TS-2000LE Black face Xcvr w/3 accs	1999.99
TS-2000X HF/6m/2m/430/1.2 Xcvr/tuner	*2074.99
*Price after instant coupon; coupon expires 4/30/07	
KPS-15 23A switching ps w/fan, 25A surge	134.99
PS-53 Heavy duty 22.5A power supply	269.99
ARCP-2000 PC control soft; included w/TSB/LE	82.99
DRU-3A Digital recording unit; included w/LE	129.99
HS-5 Deluxe headphones	79.99
HS-6 Lightweight headphones	59.99
MB-430 Mobile mounting bracket	49.99
MC-43S Extra 8-pin hand mic w/up-down	59.99
MC-57DM Back-lit TTP hand mic	79.99
MC-60A 8-pin amp desk mic w/up-down	149.99
MC-90 2-head DSP desk microphone	249.99
PG-2Y 13' DC cable	39.99
PG-2Z 6.5' heavy duty DC cable	37.99
RC-2000 Remote faceplate mobile kit	369.99
SP-23 External speaker	89.99
VS-3 Voice synthesizer; included w/LE	39.99
TS-480HX 200w HF/100w 6m Xcvr	*1094.99
*Price after instant coupon; coupon expires 4/30/07	
TS-480SAT 100w HF/6m Xcvr w/auto tuner	*989.99
*Price after instant coupon; coupon expires 4/30/07	
PS-53 Hvy duty 22.5A ps (use 2 for 200w)	269.99
E30-3489-05 Extra 6' DC cable for TS-480	38.99
HS-6 Lightweight headphones	59.99
MB-400 Carrying bracket w/handle	47.99
MC-43S Extra 8-pin hand mic w/up-down	59.99
MC-47 Multi-function 8-pin hand mic	59.99
MC-60A 8-pin amp desk mic w/up-down	149.99
MJ-88 Modular to 8-pin mic adapter	32.99
PG-42 13' panel extension kit	58.99
PG-20 22' DC cable	46.99
SO-3 TCXO unit	109.99
SP-23 External speaker	89.99
SP-50B High quality external mobile spkr	55.99
VGS-1 Voice guide & storage unit	67.99
YF-107C 500 Hz CW filter	119.99
YF-107CN 270 Hz CW filter	119.99
YF-107SN 1.8 KHz SSB filter	119.99
TS-570D(G) 9-band Xcvr/Rcv/AFDSP/tuner/mic	*889.99
*Price after instant coupon; coupon expires 4/30/07	
TS-570S(G) 9-band Xcvr/6m/Rcv/AFDSP/tune/mic	*1079.99
*Price after instant coupon; coupon expires 4/30/07	
KPS-15 23A switching ps w/fan, 25A surge	134.99
PS-53 Heavy duty 22.5A power supply	269.99
DRU-3A Digital recording unit	129.99
HS-5 Deluxe headphones	79.99

Kenwood - continued AES Price

HS-6 Lightweight headphones	59.99
MB-430 Mobile mounting bracket	49.99
MC-43S 8-pin hand mic w/up-down	59.99
MC-60A 8-pin amp desk mic w/up-down	149.99
MC-90 2-head DSP desk microphone	249.99
PG-2Y 13' DC cable	39.99
PG-2Z 6.5' heavy duty DC cable	37.99
SO-2 TCXO unit	179.99
SP-23 External speaker	89.99
SP-50B High quality external mobile spkr	55.99
VS-3 Voice synthesizer	39.99
YK-88C-1 500 Hz CW filter	129.99
YK-88CN-1 270 Hz CW filter	129.99
YK-88SN-1 1.8 KHz SSB filter	129.99
7-pin DIN plug	4.99
8-pin DIN plug	6.99
13-pin DIN plug	9.99
AT-50 External HF auto tuner	319.99
PG-4M 18' extension cable for AT-50	29.99
HS-5 Deluxe headphones	79.99
HS-6 Lightweight headphones	59.99
KES-5 Heavy duty 40w untermated speaker	59.99
KPS-15 23A switching ps w/fan, 25A surge	134.99
LF-30A 1kw PEP low pass filter	64.99
MC-43S 8-pin hand mic w/up-down switch	59.99
MC-60A 8-pin amp desk mic w/up-down	149.99
MJ-88 Modular to 8-pin mic adapter	32.99
PG-3B 15A DC line noise filter	29.99
PS-52 Heavy duty power supply; TS-870S	239.99
SP-31 External speaker; TS-870S	99.99
SP-50B High quality external mobile speaker	55.99
TU-7 Prog encoder; 2550/751A/TW-4100A	49.99
YK-107C 500 Hz CW filter; TS-50S	129.99
TM-7V08A 50w 2m/35w 440 FM Xcvr	399.99
TM-D700A 50w 2m/35w 440 FM/1200/9600 TNC	*489.99
*Price after instant coupon; coupon expires 4/30/07	
MB-201 Extra mobile bracket	25.99
MJ-88 Modular to 8-pin mic adapter	32.99
PG-2N Extra DC cable	17.99
PG-4X 13' extension cable kit	69.99
PG-5A Packet data cable	15.99
SP-50B High quality external mobile spkr	55.99
VS-3 Voice synthesizer	39.99
TM-G707A 50w 2m/35w 440 FM Xcvr	279.99
DFK-3C 9' sep disp cable kit; TMG707A	44.99
DFK-4C 13' remote cable kit; TMG707A	64.99
DFK-7C Dlx 23' remote cable kit; TMG707A	99.99
MB-201 Extra mobile bracket	25.99
MJ-88 Modular to 8-pin mic adapter	32.99
PG-2N Extra DC cable	17.99
PG-4S PC interface cable; TM-G707A	32.99
PG-5A Packet data cable	15.99
SP-50B High quality external mobile spkr	55.99
VS-3 Voice synthesizer	39.99
TM-271A 60w 2m FM Xcvr w/WX alert	169.99
MJ-88 Modular to 8-pin mic adapter	32.99
PG-2N Extra DC cable	17.99
PG-5D PC interface cable	78.99
SP-50B High quality external mobile spkr	55.99
DFK-3 9' separate disp cable kit; 642/742	28.99
DFK-4 13' remote cable kit; 642/742AD	59.99
DFK-7 Dlx 22' remote cable kit; 642/742	89.99
KQT-8/TSU-6 Prog CTCSS decoder; TM-541A	49.99
MC-57DM Back-lit TTP mic; 241/331/441/541	79.99
MC-58DM Back-lit TTP mic; 251/733/742/255/NTA	79.99
TSU-7 CTCSS decoder unit; TM-642/742AD	59.99
PB-34 9.6v 600mah 5w battery; TH-22	79.99
SC-45 Soft case for TH-G71A/PB-38/39	14.99
TSU-8 CTCSS decoder; TH22/42AT/TM461A	59.99
TH-K2AT 5w 2m FM HT/battery/charger	139.99
BT-14 6-AA battery holder	19.99

Kenwood - continued AES Price

EMC-3 Lapel clip mic/ear piece	24.99
HMC-3 VOX/boom mic headset	48.99
KHS-21 Boom mic headset	33.99
KSC-24 Rapid charger	48.99
PB-43N 7.2v 1100mah NiMH battery	44.99
PG-2W DC cable w/fuse	17.99
PG-31 Cig lighter cord w/filter	37.99
PG-4Y 9-pin PC programming cable	32.99
SC-54 Soft case	16.99
SMC-32 Mini water resist rt angle spkr/mic	52.99
SMC-33 Speaker/mic w/remote control	65.99
SMC-34 Spkr/mic w/vol cont/function keys	32.99
WR-2 Water resistant bag; TH-22/42AT	29.99
TH-D7A(G) 5w 2m/440 FM HT/1200/9600 TNC	*324.99
*Price after instant coupon; coupon expires 4/30/07	
BC-19 Rapid charger	64.99
BT-11 4-AA battery holder	17.99
EMC-3 Lapel clip mic/ear piece	24.99
HMC-3 VOX/boom mic headset	48.99
J29-0631-13 Belt clip for bat; D7A/G71A	4.99
PB-39 9.6v 600mah 5w battery	57.99
PG-2W DC cable w/fuse	17.99
PG-31 Cig lighter cord w/filter	37.99
PG-4W PC software/cable; TH-D7A(G)	55.99
SC-47B Black soft case for TH-D7A(G)	15.99
SC-47OR Orange soft case for TH-D7A(G)	15.99
SMC-32 Mini water resist rt angle spkr/mic	52.99
SMC-33 Speaker/mic w/remote control	65.99
SMC-34 Spkr/mic w/vol cont/function keys	32.99
WR-2 Water resistant bag	29.99
TH-FGA 5w 2m/220/440 FM HT/lith ion	329.99
BT-13 AA battery case	25.99
EMC-3 Lapel clip mic/ear piece	24.99
HMC-3 VOX/boom mic headset	48.99
KHS-21 Boom mic headset	33.99
PB-42L Extra 7.4v 1550mah lithium ion batt	79.99
PG-2W DC cable w/fuse	17.99
PG-31 Cig lighter cord w/filter	37.99
PG-4Y 9-pin PC programming cable	32.99
SC-51 Soft case w/swivel belt clip	16.99
SMC-32 Mini water resist rt angle spkr/mic	52.99
SMC-33 Speaker/mic w/remote control	65.99
SMC-34 Spkr/mic w/vol cont/function keys	32.99
WR-2 Water resistant bag	29.99

CONSUMER ELECTRONICS

TKM-707 150w HF marine SSB Xcvr spec order	1249.99
KAT-1 HF marine auto ant tuner spec order	569.99

KESTER (KES)

82-5000-0004 .5 oz 60/40 solder, .040 dia	\$ 2.99
---	---------

KLEINHUIS (KLE)

1309 Isolated grounding bar	\$ 14.99
-----------------------------	----------

KOSS (KOS)

KTX/8 Collapsible stereohead w/vol control	\$ 14.99
QZ/5 Passive noise reduction stereohead	49.99
QZ/50 Active noise reduction stereohead	49.99
QZ/99 Noise reduction stereohead w/mono sw	59.99
QZ/2000 Active noise reduction stereohead	119.99
Y-88 Dual stereohead Y-adaptor	4.99

LDG (LDG)

MP-IC-Cable Icom interface cbl; AT-11MP	\$ 1.99
AT-100Pro 160-6m 1-125w/100w 6m auto tuner	199.99
AT-200Pro 160-6m 5-250w/100w 6m auto tuner	229.99
RBA-1:1 Remote 1:1 balun	30.99
RBA-4:1 Remote 4:1 balun; long/random/nd feed	30.99
AT-200PC 160-6m 5-250w/100w 6m PC cti tuner	239.99
RBA-1:1 Remote 1:1 balun	30.99
RBA-4:1 Remote 4:1 balun; long/random/nd feed	30.99
AT-897 Bolt-on auto tuner for Yaesu FT-897	199.99

LDG - continued

	AES Price
RBA-1:1 Remote 1:1 balun	30.99
RBA-4:1 Remote 4:1 balun; long/random/vid fed	30.99
AT-7000 Tuner; IC7000/706/703/718/746/756	169.99
RBA-1:1 Remote 1:1 balun	30.99
RBA-4:1 Remote 4:1 balun; long/random/vid fed	30.99
AT-1000 1000w PEP HF/100w 6m auto tuner	549.99
Icom-IC1 Icom 10' interface cable for tuner Δ	19.99
Icom-IC2 Icom 8' interface cable for tuner Δ	8.99
Y-ACC FT857/897 interface cable for tuner Δ	12.99
DTS-4 4-pos HF/6m 1500/250w ant switch ...	79.99
DTS-4R Remote control for DTS-4	39.99
DTS-6 6-pos HF/6m 1500/250w ant switch ...	99.99
DTS-6R Remote control for DTS-6	49.99
Z-11Pro 160-6m .1-125w/100w 6m auto tuner	179.99
RBA-1:1 Remote 1:1 balun; short random	30.99
RBA-4:1 Remote 4:1 balun; long/random/vid fed	30.99
Z-100 160-6m .1-125w/50w 6m auto tuner	149.99
RBA-1:1 Remote 1:1 balun; short random	30.99
RBA-4:1 Remote 4:1 balun; long/random/vid fed	30.99
DM-7800 Dual 4.5" meters for IC-7800	179.99
FT-METER Multi-function meter for FT-857/897	49.99
MULTI-DC 12vdc distribution box	49.99
RCA-14 Transceiver cable breakout box	59.99
TW-1 160-10m 2kw PEP talking wattmeter/SWR	149.99
TW-2 6m-440 250w PEP talking wattmeter/SWR	149.99

LA CROSSE (LAC)

EA-3010 Handheld wind indicator	\$ 49.99
IR-101 Infra-red thermometer	49.99
RS-2040 Remote control outlet system ...D	29.99
WS-1612CH-IT Professional wireless WX stn	139.99
WS-2010-13 PC interface/soft; WS-2010 ...D	49.99
WS-3610UCH Professional wireless WX stn D	299.99
WS-7013U Wireless temperature station ...D	19.99
WS-7013BZ Wireless temperature station	19.99
WS-7014CH Wireless forecast station	49.99
WS-7038UF Wireless rain gauge	59.99
WS-7394U-CH-IT Wireless forecast station	69.99
WS-8117U-Oak Atomic clock/in/out temp/moon	39.99
WS-8025AL Dix sun/moon wireless WX stn D	129.99
WS-8035U-SAL-IT Dix wireless forecast stn	89.99
WS-9004U-IT Wireless rain gauge	89.99
WS-9016TWC Sun/moon wireless weather stn D	79.99
WT-5120 Projection alarm/out temp/humidity	39.99
WT-5431 Projection alarm w/remote temp ...D	29.99
TX-3U Extra temp sensor w/LCD; WT5431 Δ	9.99

LAKESIDE (LAK)

9175 75m 7' Hamstick antenna	\$ 29.99
9160 60m 7' Hamstick antenna	29.99
9140 40m 7' Hamstick antenna	29.99
9130 30m 7' Hamstick antenna	29.99
9120 20m 7' Hamstick antenna	29.99
9117 17m 7' Hamstick antenna	29.99
9115 15m 7' Hamstick antenna	29.99
9112 12m 7' Hamstick antenna	29.99
9110 10m 7' Hamstick antenna	29.99
9106 6m 4.5' Hamstick antenna	29.99
901 Dipole mount for 2 Hamsticks	16.99
IM-1 Inducti-match for 75-12m mobile ant ...	22.99
TM-1 License plate mount, ¾-24	49.99

LARSEN Antennas (LAR)

27-31 MHz ANTENNA	
NMO-27B 10m black ant only (no mount)	\$ 36.99
NMO-27C 10m ant only (no mount)	32.99
47-54 MHz ANTENNA	
NMO-50B 6m black ant only (no mount)	\$ 36.99
NMO-50C 6m ant only (no mount)	32.99
144-174 MHz ANTENNAS	
NMO-150B 2m black ant only (no mt), 3 db	\$ 33.99

Larsen - continued

	AES Price
NMO-150C 2m ant only (no mount), 3 db	30.99
OM-1500C 2m no ground plane antenna	69.99
440-460 MHz ANTENNAS	
NMO-440B 440 black ant only (no mt), 3.4db D	\$ 34.99
NMO-440C 440 ant only (no mount), 3.4db	29.99
890-960 MHz ANTENNA	
NMO-900B 900 black ant only (no mt), 3.4db	\$ 39.99
MM-2/70PL 2m/440 0/1.8db mag mt ant	64.99
NMO-2/70B 2m/440 blk ant only (no mt), 1.6/3.5db	79.99
NMO-2/70-H 2m/440 ant (no mt), 0/1.8db	49.99
NMOQ-Spec 136-960 MHz ¼ wave ant (no mt)	9.99
NMOQ-Spec-B 136-960 MHz ¼ wv ant (no mt)	15.99
NMOQ-Spec-K 136-960MHz ¼ wv ¾" hole ant	24.99
GPS-NM002 GPS NMO mount ant (no mt)	69.99
NMO-150450800 3-band scanner ant (no mt)	29.99
ON GLASS ANTENNAS	
KG-144-UD-PL 2m on glass antenna	\$ 89.99
KG-220-UD-PL 220 on glass antenna	D 79.99
KG-440-UD-PL 440 on glass antenna	73.99
KG-2/70-CX-PL 2m/440 on glass antenna	139.99
KG-Reinstall Reinstall kit for KG-ants	9.99
KULDUCKIES - For Hand-helds	
KD4-2/70 2m/440 9" BNC Kulduckie	\$ 39.99
KD4-146-HQ 2m 10.5" BNC Kulduckie	25.99
KD14-2M-HW 2m 44.5" BNC telescopic whip	38.99
KD14-445 440 6.5" BNC Kulduckie	19.99

ACCESSORIES

BSA-K 144-512MHz base mtg kit; NMO/UHF ant	\$ 53.99
HP-34 3/4" hole plugs (5)	3.99
NMO-B38 NMO mt hdw/A-7 NLA adapter ...D	12.99
NMO-CAP-B Black rain cap for NMO mount	5.99
NMO-K ¾" hole mt w/coax for NMO ant	15.99
NMO-KHF-UD ¾" NMO hole mt/coax (less plug)	12.99
NMO-MMR Round mag mt, coax for NMO ant	32.99
NMO-TLP Low profile tnl lid mt, coax; NMO ant	29.99
PO-K Roof mt, coax for SO-239 ant	32.99
NMO-M Magnet mt, coax for SO-239 ant	36.99
RG-SS Extra super seal NMO gaskets (3)	5.99
SPRING Shock spring	10.99
TMB-34 Trunk mtg bkt for NMO antenna	5.99
TMB-34B Black trunk mtg bkt for NMO ant	7.99
W-270B 2m/440 black replacement mobile whip	29.99
W-KG2/70 2m/440 replacement on glass whip	29.99
W-490 49" replacement mobile whip	9.99
W-490B Black 49" replacement mobile whip	12.99

LIGHTWAVE (LIG)

LW-HT 4 LED/3 AA-cell illuminator head torch D	\$ 29.99
LW-PB 1 LED/2 lith-cell pocket flashlight ...D	14.99
LW-2000 4 LED/3 AA-cell flashlight	24.99
LW-3000 7 LED/3 C-cell flashlight	39.99
LW-4000 10 LED/3 D-cell flashlight	49.99

LOGSAT (LOG)

Logsat Professional Satellite tracking CDROM	\$ 69.99
--	----------

LOSI (LOS)

A0014 XXX-4 4WD electric Competition buggy kit D	\$ 149.99
A0090 XXX-T Sport RTR w/XR2i electric car Δ	149.99

M² (MSQ)

15M-4DX 15m 8.5db 4el 33' 8" boom beam Δ	\$ 399.99
6M-3 6m 50-50.6 or 51-54 6.4db 3el 69" bm beam	170.99
6M-5X 6m 50-50.5 or 51-54 9.4db 5el 18" bm beam	283.99
6M-7JHV 6m 50-50.4 10.9db 7el 30" 8" bm beam	351.99
6M-HO-LOOP 6m 50-50.3 4.4db horiz loop ant	129.99
6" x 1/2" 3/8-24 mobile mast for loop	12.99
16" x 1/2" 3/8-24 mobile mast for loop	14.99
18" x 5/8" 3/8-24 mobile mast for loop	19.99
36" x 1/2" 3/8-24 mobile mast for loop	31.99
50" x 1/2" 3/8-24 mobile mast for loop	35.99

M² - continued

	AES Price
Mast/Top Bkt Top bracket for mast; HO stack	21.99
2M-4 2m 7.5db 4el 4' boom beam	129.99
2M-7 2m 10.3db 7el 8'10" boom beam	144.99
2M-9SSB/FM 2m SSB or FM 12db 9el 14' 6" boom	168.99
2M-12 2m 12.8db 12el 19'6" boom beam	226.99
2M-5WL 2m 14.8db 17el 33' boom beam	283.99
2M-18XXX 2m 14.4db 15.3db 18el 363" bm beam	328.99
2M-CP14 2m 10.3db 7h/7v 10'6" bm circ beam	226.99
2M-CP22 2m 12.5db 11h/11v 18'6"bm circ beam	329.99
PS-2M 2m polarity switch; circ pol beam	201.99
FG X-Boom Kit For circular antennas, etc.	186.99
2M-440XP 2m/440 9/12db 5/10el 5'8" boom Δ	149.99
2M-HO-LOOP 2m 144-144.5 4.86db horiz loop	56.99
6" x 1/2" 3/8-24 mobile mast for loop	12.99
16" x 1/2" 3/8-24 mobile mast for loop	14.99
18" x 5/8" 3/8-24 mobile mast for loop	19.99
36" x 1/2" 3/8-24 mobile mast for loop	31.99
50" x 1/2" 3/8-24 mobile mast for loop	35.99
Big-Foot 4x-mag mt; 2M-HO-LOOP stack/etc	129.99
MAG-KIT Magnet mt kit; single 2m-HO-LOOP	28.99
Mast/Top Bkt Top bracket for mast; HO stack	21.99
STACK-KIT Stack kit for 2m-HO-LOOP's	80.99
EB-144/RK-2M 2m Eggbeater w/reflector kit	241.99
222-7EZ 220 9.8db 7el 5' 8" boom beam	129.99
222-10EZ 220 12db 10el 9' 9" boom beam	144.99
222-SWL 220 15.2db 15el 23'3" boom beam	226.99
222-TWL 220 16.4db 23el 32'5" boom beam	283.99
222-HO-LOOP 220-224 4.75db horiz loop ant	56.99
6" x 1/2" 3/8-24 mobile mast for loop	12.99
16" x 1/2" 3/8-24 mobile mast for loop	14.99
18" x 5/8" 3/8-24 mobile mast for loop	19.99
36" x 1/2" 3/8-24 mobile mast for loop	31.99
50" x 1/2" 3/8-24 mobile mast for loop	35.99
MAG-KIT Magnet mt kit; single 222-HO-LOOP	28.99
Mast/Top Bkt Top bracket for mast; HO stack	21.99
420-50-11 432 11.3db 11el 5'bm rear mt beam	129.99
440-18 432 14.5db 18el 11'4" boom beam	170.99
440-21ATV 432 15.9db 21el 14'6" bm ATV beam	201.99
436-CP30 432 14.5db 15h/15v 9'9"bm circ beam	329.99
436-CP42UG 432 16.8db 21h/21v 18'10"bm circ	387.99
PS-70CM 432 polarity switch; circ pol beam	201.99
FG X-Boom Kit For circular antennas, etc.	186.99
432-9WL 432 17.3db 28el 21" boom beam	244.99
432-HO-LOOP 430-436 5db horiz loop ant	56.99
6" x 1/2" 3/8-24 mobile mast for loop	12.99
16" x 1/2" 3/8-24 mobile mast for loop	14.99
18" x 5/8" 3/8-24 mobile mast for loop	19.99
36" x 1/2" 3/8-24 mobile mast for loop	31.99
50" x 1/2" 3/8-24 mobile mast for loop	35.99
Big-Foot 4x-mag mt; 432-HO-LOOP stack/etc	129.99
MAG-KIT Mag mt kit; single 432-HO-LOOP	28.99
STACK-KIT-70CM Stack kit; 2 432-HO-LOOP's	80.99
EB-432/RK-70CM 432 Eggbeater w/reflector kit	226.99
23CM-2EEZA 1.2GHz 16db 22el 5'2" bm beam	170.99
23CM-35 1.2GHz 18.4db 35el 10" bm beam	226.99
2M-2-Port-PD 2m 2-port type N power divider	79.99
70CM-2-Port-PD 432 2-port N power divider	79.99
23CM-2-Port-PD 1.2GHz 2-port N power divider	79.99
OR-2800PDC 35 sq ft azimuth rotor/control/8-wire	1598.99

MFJ (MFJ)

ANTENNA TUNERS

9982 2.5kw continuous w/roller inductor	\$ 649.99
9980 Dix 1.5kw PEP w/roller inductor	329.99
986 3kw PEP w/roller inductor	309.99
962D 1.5kw PEP/meter/switch/balun/roller ind	259.99
969 HF & 6m 300w roller inductor tuner	189.99
949E 300w/PEP meter/dummy/switch/balun	159.99
948 300w meter/switch/balun	139.99
941E 300w tuner w/meter, switch, balun	119.99
945E 300w tuner w/meter plus 6m	109.99

MFJ - continued

AES Price

20 Mobile bracket for 945E	6.99
901B Versa Tuner 200w ant tuner	89.99
910 80-10m mobile antenna matcher	24.99
16010 200w random wire tuner	59.99
9748 3.5-54MHz balanced line ant tuner	169.99
9748B 1.8-54MHz balanced line ant tuner	189.99
991 150w automatic antenna tuner .....D	149.99
991B 150w automatic antenna tuner	209.99
993B 300w deluxe automatic antenna tuner	249.99
994 600w automatic antenna tuner .....D	269.99
994B 600w automatic antenna tuner	339.99
1316 12vdc 1.5A adapter; auto tuners	21.99
5124A Alinco interface cable; auto tuners	19.99
5124I Icom interface cable; auto tuners	19.99
5124K Kenwood interface; auto tuners	59.99
5124Y Yaesu interface; auto tuners	59.99
902 80-10m 150w travel tuner	89.99
903 6m antenna tuner	59.99
906 6m antenna tuner w/wattmeter	89.99
914 Auto tuner extender	69.99
921 2m/220 300w PEP tuner/SWR/wattmeter	79.99
924 440 MHz 300w PEP tuner/SWR/wattmeter	79.99
934 300w tuner w/artificial ground	189.99

MEMORY KEYS

451 Dedicated CW keyboard w/memory	\$109.99
452 CW keyboard/keyer w/disp/keyboard	139.99
452X CW keyboard/keyer w/disp, no keyboard	109.99
498 Dix CW keyboard/keyer w/disp/keyboard D	99.99
490 492 keyer/Bencher paddle combo	199.99
490X 492 keyer for use w/Bencher or 564	109.99
564 Deluxe iambic chrome paddle for 490X	69.99
564B Deluxe iambic black paddle for 490X	69.99
492 192 char menu driven memory keyer	109.99
495 Millennium memory keyer	169.99
5409 9-pin serial port 6' cable for 493 .....D	69

ELECTRONIC KEYS

401D Econo keyer	\$ 59.99
407D Deluxe electronic keyer	69.99

KEYER/PADDLES

422D Keyer/Bencher paddle combination	\$179.99
422DX Keyer only	89.99
441 SlimLine econo keyer	69.99
442 SlimLine keyer/Bencher paddle combo	169.99
447 SlimLine deluxe keyer	89.99
564 Deluxe iambic chrome paddle	69.99
564B Deluxe iambic black paddle	69.99

COMPUTER INTERFACES

1224 Interface	\$109.99
1285 Software for IBM; 1224	19.99
48 1278 upgrade for 1278B	24.99
781 DSP filter for any TNC or controller .....Δ	29.99
1214PC Multimode interface for IBM	159.99
1212B TNC to microphone interface	49.99
1212BYH TNC/mic switch; KAM HF	49.99
1212BYV TNC/mic switch; KAM VHF	49.99
1212M TNC/mic RJ-45 switch; MFJ/PK-900	49.99
1212MYV TNC/mic RJ-45 sw; KAM VHF; KPC3	49.99
1284M 3 1/2" IBM starter pack	99
1284W MFJCOM for Windows	29.99
1289W Multicom for Windows with cable	59.99
1289DW Multicom for Windows, less cable	49.99

SSB/CW FILTERS

751B Super tunable CW audio filter	\$ 79.99
752C Dual tunable SSB/CW filter	109.99
784B Deluxe tunable DSP filter	249.99
5184 Cable pack for 784B	9.99

PHONE PATCH

624D Phone patch w/audio VU meter	\$129.99
---	----------

DUMMY LOADS

250 2kw PEP dummy load w/oil	\$ 69.99
------------------------------------	----------

MFJ - continued

AES Price

250X 2kw PEP dummy load, less oil	49.99
21 1 gal industrial xfmr oil for wet dummy	29.99
260C 300w 0-650 MHz dry dummy load	39.99
260CN 300w 0-650 MHz type N dry dummy	49.99
264 1.5kw 0-650 MHz dry dummy load	74.99
264N 1.5kw 0-650 MHz type N dry dummy	84.99
267 1.8-60 100w dry dummy load/SWR/wattmeter	159.99

SWR/WATTMETERS

812B 144-220 MHz SWR/FS/wattmeter	\$ 39.99
815C 160-10m cross-needle SWR/wattmeter	89.99
816 1.8-30 MHz toroidal SWR/wattmeter	39.99
817C 2m/220/440 cross needle meter	99.99
841 2m 5w in-line HT wattmeter/SWR	49.99
844 Compact 2m/440 SWR/wattmeter	79.99
860 1.8-60 MHz cross-needle meter	49.99
862 2m/220/440 cross-needle meter	59.99
864 1.8-60MHz/2m/440 cross needle meter	89.99
868 HF 6.5" diagonal PEP SWR/wattmeter ...	139.99
870 1.6-60MHz Grandmaster SWR/wattmeter	129.99
872 1.8-200MHz Grandmaster SWR/wattmeter	94.99
873 125-525MHz Grandmaster SWR/wattmeter	114.99
874 1.8-525MHz Grandmaster SWR/wattmeter	169.99

SHORTWAVE ACCESSORIES

306 Car radio SWL converter	\$ 99.99
956 LW/MW/SW preselector/tuner	59.99
959C SW receiver ant tuner w/preamp	109.99
1020C .3-30 MHz indoor active receive ant	89.99
1022 300kHz-200MHz active rcv antenna	59.99
1024 .05-30 MHz outdoor active rcv ant	139.99
1040C Deluxe receiver preselector	109.99
1045C Receiver preselector	79.99

BOOKS

30 Golden Classics book	\$ 14.95
32 Packet Made Easy book	12.95
33 Mobile Handbook	14.95
36 Shortwave Listeners Guide; Apts/Condos	12.95
37 Ham Communications Circuit Files book	12.95
38 Easy-up Antennas book	19.95
3036 The Packet Radio Operators book	14.95
3101 Fox Hunt Adventure book	9.95
3211 Technician license guide	11.95
3213 General license guide	11.95
3301 Troubleshooting Antenna & Feedlines book	14.95
3302 73 Dipole and Long-Wire Antennas	14.95
3303 73 Vertical, Beam, and Triangle Ants ...	14.95
3305 Antennas & Transmission Lines book ...	19.95
3400 Morse Code: Breaking the Barrier	19.95
3502 Solid State QRP Projects	12.95
3504 FET Principles, Experiments & Projects	16.95
3506 Ferromagnetic-Core Design book	19.95
3507 Practical RF Design Manual	19.95
3509 Ladder Crystal Filters	19.95

CLOCKS

105C 24-hour quartz wall clock	\$ 24.99
107B 24-hour digital clock	12.99
108B 24/12-hour dual disp digital clock	21.99
112B Deluxe world map clock	29.99
113 24/12-hr 1.8" LED clock/batt back-up ...	19.99
118 Giant 24/12 hour LCD clock	29.99
123 Eternity solar atomic clock	79.99
125 Calendar 24-hour analog wall clock	34.99

ANTENNAS

343 1 1/2" hole mount for 3/8-24 whip	\$ 9.99
1402 1m/440 0/3db 16.5" 100w ant only	34.99
1412 2m/440 3/5.5db 40" 200w ant only	49.99
1422 2m/440 3.2/5.7db 41.5" 150w ant only	49.99
1432 2m/440 5/7.6db 62.5" 150w ant only	69.99
1436 6m/2m/440 2.15/4.5/7.2db 59" ant only	79.99
333BM 3.5" HiFlux NMO mag mt; not 1436	14.99
333BS 3.5" HiFlux SO-239 magt mt not 1436	14.99

MFJ - continued

AES Price

335BM 5" HiFlux NMO mag mt; not 1436 ..	21.99
335BS 5" HiFlux SO-239 mag mt; not 1436 ..	21.99
340 Mirror/luggage pipe clamp mount	34.99
345S Trunk/hatchback lip mt SO-239 mt ..	34.99
1516 2m 15' vertical base antenna	99.99
1621 40-10m 54" portable ant w/tuner	99.99
1622 40-2m apartment antenna	99.99
1624 40-6m mini bugcatcher antenna	79.99
1661 40-2m portable manual screwdriver ant	129.99
1664 80-6m portable manual screwdriver ant	159.99
1710 2m 3/4 wave telescopic BNC antenna	9.99
1712 2m/440 telescopic BNC antenna	14.99
1712S 2m/440 telescopic SMA antenna	14.99
1713 2m/440 SuperFlex Thin Duk HT ant	19.99
1713S 2m/440 SuperFlex SMA Thin Duk ant ..	19.99
1714 2m 3/4 wave telescopic BNC antenna	16.99
1715 2m/440 SuperFlex gain Thin Duk HT ant ..	24.99
1715S 2m/440 SuperFlex gain SMA Thin Duk ..	24.99
1716 2m/440 duck for HT	16.99
1716S 2m/440 SMA duck for HT	16.99
1717 2m/2.15db 440 duck for HT	21.99
1717PL 2m/440 foldover flexi-duck, PL-259 ..	24.99
1717S 2m/2.15db 440 SMA duck for HT	21.99
1719 2m/440 1.2GHz BNC Midget Duck	19.99
1719S 2m/440 1.2GHz SMA Midget Duck	19.99
1720S 6m/2m/440 SMA Duck	29.99
1721 2m HT UltraLite mag mt antenna	15.99
1722 2m/440 HT UltraLite mag mt BNC ant ..	19.99
1724B 2m/440 magnet mt antenna	19.99
1728B 6m 1/2 wv/2m 3/4 wv mag ant/PL259/BNC ..	29.99
1729 2m/440 magnet mt antenna	34.99
1730 2m pocket roll-up vertical antenna	24.99
1734 2m/440 2.6/6.3db glass mt antenna	44.99
1736 6m J-Pole travel antenna	29.99
1738 2m 2.6db glass mt antenna	34.99
94 Remount kit for 1734/1738	4.99
1740 2m 3/4 wave ground plane ant	24.99
1750 2m 3/4 wave ground plane ant	29.99
1752 220 3/4 wave ground plane ant	29.99
1754 2m/440 ground plane antenna	34.99
1762 6m 6db 3 el 6' boom beam	89.99
1763 2m 3el portable beam	49.99
1764 2 & 6m dual 3/4 super gain base ant	54.99
1768 2m/440 4/7 el beam antenna	89.99
1778 G5RV 160-10m 102' ant (needs tuner) ..	39.99
1786 Super Hi-Q 10-30 MHz loop/dlx control ...	399.99
1788 Super Hi-Q 40-15m loop/dlx controller ...	449.99
1936 40/20/15/10/6/2m 10' vertical ant	209.99
1798 80/40/30/20/17/15/12/10/6/2m 20' vert ..	279.99
1800 2.4GHz wi-fi 16 element 15db beam	29.99
5606RS 6' N male - rp-SMA female cbt for 1800 ..	24.99
1899T 80-6m telescopic antenna; FT-817	69.99
1910 33' telescoping fiberglass mast	79.99
1954 3/8-24 10' telescopic whip	22.99
1956 3/8-24 12' telescopic whip	29.99

CABLES

5020 MFJ TNC - Yae FT50R/compat	\$ 17.99
5020YV KAM VHF/KPC3 - Yae FT50R/compat	17.99
5022 MFJ TNC - Alinco/Standard HT cable ..Δ	9.99
5022YV KAM VHF/KPC3 - Ali/Sta HT cable	17.99
5024 MFJ TNC - Ico/Yae/Al/RS HT cable	17.99
5024B PK/Pac/Com/compat - Ico/Yae/RS	17.99
5024YV KAM VHF/KPC3 - Ico/Yae/Al/RS HT ...	17.99
5026 MFJ TNC - Kenwood HT cable	17.99
5026YV KAM VHF/KPC3 - Kenwood HT cable ..	17.99
5060 MFJ TNC - Ken/Yae acc 6-pin mini DIN ..	21.99
5060YV KPC9612 - Ken/Yae acc 6pin mini DIN ..	21.99
5060YV KAM VHF/KPC3 - Ke/Ya acc 6pin mni DIN ..	21.99
5063 MFJ TNC - Icom HF acc 8-pin DIN	21.99
5063YH KAM TNC HF - Icom HF acc 8-pin DIN ..	21.99
5064 MFJ TNC - Icom VHF acc 8-pin DIN	21.99

MFJ - continued

AES Price

5064YK	KPC9612 - Icom VHF 8-pin DIN	69
5065	MFJ TNC - Ico IC-706 acc 13-pin DIN	21.99
5065YH	KAM HF - Ico IC-706 acc 13-pin DIN	21.99
5065YV	KAM VHF - Ico IC706 acc 13-pin DIN	21.99
5066	MFJ TNC - Kenwood HF acc 13-pin DIN	21.99
5066YH	KAM HF - Ken HF acc 13-pin DIN	21.99
5080	MFJ TNC - Yaesu 8-pin cable	17.99
5080M	MFJ TNC - Yaesu 8-pin modular	17.99
5080MYV	KAM VHF/KPC3 - Yae 2500M/7400H	17.99
5080YH	KAM HF port - Yaesu 8-pin cable	17.99
5080YV	KAM VHF/KPC3 - Yaesu 8-pin cable	17.99
5082	Open end - 8-pin mic cable	11.99
5084	MFJ TNC - Icom 8-pin cable	17.99
5084M	MFJ TNC - Icom 8-pin modular	17.99
5084MYV	KAM VHF/KPC3 - Icom 8-pin mod	17.99
5084YH	KAM HF port - Icom 8-pin cable	17.99
5084YV	KAM VHF/KPC3 - Icom 8-pin cable	17.99
5086	MFJ TNC - Kenwood/Alicco 8-pin cable	17.99
5086M	MFJ TNC - Kenwood 8-pin modular	17.99
5086MYV	KAM VHF/KPC3 - Ken 8-pin mod	17.99
5086YH	KAM HF port - Ken/Ali 8-pin cable	17.99
5086YV	KAM VHF/KPC3 - Ken/Ali 8-pin cable	17.99
5088M	MFJ TNC - Radio Shack 8-pin modular	17.99
5205	5-pin DIN open end cable	6.99
5208	Open end - Ico HF/VHF acc 8-pin DIN	11.99
5213	Open end - Kenwood acc 13-pin DIN	11.99
5220R/5220	Open end - Yae FT50R/compat	11.99
5222	Open end - Ali split HT cable	11.99
5224	Open end - Ico/Yae/Ali/RS HT cable	11.99
5268	Open end - modular phone plug cable	11.99
5412	IBM printer cable	11.99
5413	RS-232 6' cable DB-25M-25F	4.99
5414	RS-232 6' cable DB-25M-9F	9.99
5429	Cable/adapt; RS-232 to USB w/drivers	24.99
5803/10	3' coax jumper cable	5.99

RADIOS/TRANSCIVERS

8100K	Shortwave regenerative Rcvr kit	\$ 69.99
8100W	Shortwave regenerative Rcvr wired	99.99
8621	5w 2m data radio w/145.01 MHz	159.99
8621X2	5w APRS ready 2m data radio/144.39	169.99
4110	Portable AC power supply	59.99
5100	Data radio cable - MFJ/TAPR	17.99
5100YV	Data radio cable - KAM/KPC-3	17.99
5106	Open end - 6-pin mini Ken/Yae cable	6.99
8708	4ch ham micro ATV transmitter	159.99
9015	5w 15m CW Xcvr	189.99
9020	5w 20m CW Xcvr	189.99
9030	5w 30m CW Xcvr	189.99
9040	5w 40m CW Xcvr	189.99
27	Handle for CW station	6.99
412	Plug-in Curtis keyer	49.99
726	Plug-in audio filter	49.99
971	200w portable ant tuner w/meter	109.99
1772	Portable 20m dipole	39.99
1774	Portable 40m dipole	39.99
1100	Portable AC power supply	59.99
4114	Rechargeable power pack	79.99
9402X	7w PEP 2m SSB Xcvr w/mic	289.99
9406X	10w PEP 6m SSB Xcvr w/mic	269.99
9410X	20w PEP 10m SSB Xcvr w/mic	259.99
9420X	20w PEP 20m SSB Xcvr w/mic	249.99
9440X	12w PEP 40m SSB Xcvr w/mic	249.99
9475X	12w PEP 75m SSB Xcvr w/mic	249.99
4158	SSB Xcvr CW adapter; 9420X/9440X	49.99
416	CW adapter for 9402X/9406X/9410X	49.99
971	200w HF portable ant tuner w/meter	109.99
1770A	10m dipole for 9410X	39.99
1772	Portable 20m dipole	39.99
1774	Portable 40m dipole	39.99
4110	Portable AC power supply	59.99
4114	Rechargeable power pack	79.99

MFJ - continued

ACCESSORIES

1305	5v 300ma adapter	D \$.69
1306	6v 300ma adapter	69
1312D	12vdc 500ma adapter, 2.1mm plug	15.99
1316	12vdc 1.5A adapter	21.99
15	HamGear belt loop radio holder	14.99
16C01	Glazed ceramic end insulator .....	.99
18	HamGear chest harness/cargo pocket	29.99
92AA01	AA NiMH cell	2.99
92AA10	10-pack AA NiMH cells	24.99
201	1.5-250 MHz dip meter	129.99
202B	RF noise bridge	69.99
207	160-10m SWR analyzer	99.99
208	2m SWR analyzer	99.99
209	1.8-170 MHz SWR analyzer	139.99
212	MatchMaker tune up device	89.99
219B	SWR analyzer, 440 MHz/N50-239 adapt	119.99
224	2m FM signal analyzer	159.99
249B	1.8-170 MHz SWR anal/LCD counter	239.99
259B	1.8-170 MHz SWR anal/RF res mtr	259.99
269	1.8-170+440 MHz SWR anal/RF res mtr	339.99
29C	Carrying case w/window; 209/249B/259B	24.99
39C	Carrying case w/window; 269	24.99
66	1.8-30/30-170 dip coils; 209/249B/259B	24.99
92AA10	10-pack 1300ma AA NiMH cells	24.99
98	Package of 39C/66/1312D for 269	60.99
98B	Pack of 92AA10/39C/66/1312D for 269	88.99
99	Pack of 29C/66/1312D; 209/249B/259B	60.99
99B	Pack 92AA10/29C/66/1312D; 209/249B/259B	88.99
99C	Pack - 92AA10/1312D; 209/249B/259B/269	40.99
731	RFI filter for SWR analyzer	89.99
1312D	12vdc 500ma ps for SWR analyzers	15.99
270	Guardian Angel 400w PEP lightning protect	29.99
97	Gas tube plug for 270	9.99
281	ClearTone communications speaker	12.99
2881	Headset/mic; Icom/ADI/Star/RS/older Yae	24.99
288K	Headset/mic for Kenwood	24.99
288Y	Headset/mic; Ico Q7/Yae FT10/50/VX1	24.99
2921	Earph/mic; Ico/older Yae/compatibles	17.99
292Y	Earphone/mic; Ico Q7/Yae FT10/50/VX1	17.99
2931	Rubber flex earloop earbud/mic; Icom	24.99
293K	Rubber flex earloop earbud/mic; Kenwood	24.99
293Y	Rubber flex earloop earbud/mic; Yaesu	24.99
2951	Mini spkr/mic; Icom & compatible HT	16.99
295K	Mini spkr/mic; Kenwood & compatible HT	16.99
295Y	Mini spkr/mic; Ico Q7/Yae FT10/50/VX1	16.99
297	Desk mic with flexible boom	69.99
5082	Open end - 8-pin mic cable for 297	11.99
5268	Open end - mod phone plug cbl; 297	11.99
53971	Cable/8-pin for 297; Icom HF	17.99
5397K	Cable/8-pin for 297; Kenwood HF	17.99
5397Y	Cable/8-pin for 297; Yaesu HF	17.99
5397MX	Cable/modular for 297; Icom/Kenwood	17.99
5397MY	Cable/modular for 297; Yaesu	17.99
310	BNC HT antenna window mount clip	19.99
310S	SMA HT antenna window mount clip	19.99
336S	5" tri-mag mt for S0239 ant/17' coax	34.99
341M	17' antenna cable; NMO	19.99
341S	17' antenna cable; S0-239	19.99
382	Deluxe amplified communications spkr	39.99
388	Cyber Ear 12db ear amplifier	29.99
392B	Deluxe communication headphones	24.99
414	Professional Morse Tutor w/LCD	199.99
417	Code Tutor with QSO	69.99
418	Code Tutor with LCD display	89.99
434B	Deluxe Voice Memory Keyer	179.99
73	Remote control head w/cbl; 434/434B	34.99
461	Pocket size Morse code reader	89.99
5161	DB-9 PC serial port cable	16.99
5162	Cable for radio external speaker	7.99
462B	RTTY/ASCII/CW/AMTOR Rcvr multi-reader	189.99

MFJ - continued

AES Price

5162	Cable for radio external speaker	7.99
464	CW reader w/built-in keyer	179.99
550	Hand key	14.99
554	Deluxe CW practice oscillator	89.99
557	Code oscillator w/key	39.99
616	Speech intelligibility enhancer	179.99
1316	12vdc 1.5A adapter	21.99
281	ClearTone speaker (requires 2)	12.99
392B	Deluxe communication headphones	24.99
633	Rapid charger; NiMH/nicad AA/AAA/9V	29.99
662	Simplex pocket repeater	79.99
701	Toroid RFI filters	16.99
704	1kw low-pass filter	49.99
762	81db 170MHz BNC attenuator	79.99
801	Super compact field strength meter	24.99
802	Bipolar field strength meter	44.99
802X	Field strength/remote meter combo	69.99
805	RFI current detector meter	89.99
850B	AC line voltage monitor	24.99
852	AC power line noise finder meter	109.99
854	HF RF current meter	109.99
886	1MHz - 3GHz pocket frequency counter	119.99
888	Deluxe 10Hz - 3GHz frequency counter	189.99
890	DX beacon monitor	109.99
912	W91NN remote balun	59.99
916B	2m/440 duplexer	34.99
931	Artificial ground unit	99.99
1025	Noise canceling antenna	159.99
1026	Deluxe noise canceling unit w/antenna	179.99
1046	1.6-33MHz receiver passive preselector	109.99
1048	1.6-33MHz Xcvr passive preselector	129.99
1112	Multiple DC outlet	39.99
1116	Dx multiple DC outlet	54.99
1117	High current multiple DC outlet	59.99
1118	Dx high current multiple DC outlet	79.99
1263	2mic in/2zig out switch/1 round cbl/ modlr cbl	109.99
5397MK	Modular mic cable for 1263	17.99
1273B	Basic soundcard interface/soft; 8P-R	59.99
1273BM	Basic soundcard interface/soft; 8P-M	59.99
1275	Soundcard/rig interface/software; 8P-R	109.99
1275M	Soundcard/rig interface/software; 8P-M	109.99
1279	Super soundcard interface/soft; 8P-R	139.99
1279M	Super soundcard interface/soft; 8P-M	139.99
1700C	6-pos combo ant/xmtr switch/protect	99.99
1701	6-position coax switch	69.99
1702C	2-pos coax switch/lightning protect	34.99
1702CN	2-pos 1.1GHz N switch/lightning protect	39.99
1703	2-rig/2-antenna RF safety switch	24.99
1704	4-pos 500 MHz switch/lightning protect	74.99
1704N	4-position type N switch	79.99
1925	Controller; Yaesu ATAS-series/other rigs	69.99
192512	Controller; Yae ATAS-series/ Ico IC-706	69.99
4035MV	Dlx 30A adjustable ps, 35A surge	149.99
4103	Switching power supply; Yaesu FT817/etc	39.99
4125MV	MightyLite 22A 3.5 lb switch ps, 25A surge	109.99
4225MV	MightyLite 22A switch ps, 25A surge/meters	149.99
4245MV	MightyLite 40A switch ps, 45A surge/meters	199.99
4602	House window antenna feedthrough panel	59.99
4712	160-2m 2-pos remote antenna switch	79.99
5396K	Adapter; 394/396 with Ken Xcvr .....	.29

MAGELLAN (MAG)

SporTrak Color	Handheld color GPS/9MB	\$ 199.99
980654-01	MapSend DirectRoute; Pro/Color D	49.99
980654-03	MapSend DirectRoute; Gold/Plat/Col D	49.99

MAHA (MAH)

9V	8.4v 170mah 9v size NiMH battery	D \$ 6.99
MH-9V200	9.6v 200mah 9v size NiMH battery	12.99
AAA-T	1.2v 650mah AAA size NiMH batt cell ea	2.99
AA-FB	1.2v 1400mah AA NiMH batt w/tabs D,ea	1.99
MH-R-AA4	4pack 1.2v 2700mah AA NiMH cells	14.99



Maha - continued

MH-96V200	9.64v 200mah 9v size NiMH batt	12.99
MHS-CD-124	Cig adapt; MH-C124S/C204F Δ	.19
MH-C801D	1-8 AA/AAA NiMH/NiCD quick charger	84.99
MH-K5000	Quick cgr/conditioner w/4 AA2500	39.99
MH-BP-7	13.2v 1000mah lcom nickel hydride	69.99
MH-BP-8	8.4v 1200mah lcom nickel hydride	59.99
MH-BP-83	7.2v 1300mah lcom nickel hydride	49.99
MH-BP-173	9.6v 650mah lcom nickel hydride	69.99
MH-BP-180	7.2v 1000mah lcom nickel hydride	49.99
MH-BP-199	6v 700mah lcom nick hyd/clip ..Δ	29.99
MH-BP-200	9.6v 680mah lcom nick hydride/clip	59.99
MH-FNB-12	12v 1000mah Yaesu nickel hydride	59.99
MH-FNB-17	7.2v 1000mah Yaesu nickel hydride	49.99
MH-FNB-27	12v 900mah Yaesu nickel hydride	59.99
MH-FNB-38	9.6v 650mah Yaesu nickel hydride	59.99
MH-FNB-41	9.6v 1000mah Yae nick hyd/spg clip	55.99
MH-FNB-V47	7.2v 1800mah Yae nick hyd/spg clip	69.99
MH-FNB-V57	7.2v 1500mah Yae nickel hydride	49.99
MH-FNB-58LI	1200mah li-polymer; Yae Vx5R	59.99
MH-FNB-72	9.6v 1700mah Yae nickel hydride	59.99
MH-PB-8	12v 1300mah Kenwood nickel hydride	62.99
MH-PB-17	12v 1300mah Kenwood nickel hydride	69.99
MH-PB-18	7.2v 1300mah Ken nick hyd; wall cgr only	49.99
MH-PB-32	6v 1000mah Kenwood nickel hydride	47.99
MH-PB-34	9.6v 1000mah Kenwood nickel hydride	57.99
MH-PB-39	9.6v 1050 mah Ken nickel hyd/clip ..	59.99
MH-PB-39H	6v 1800mah Ken nickel hyd/clip ..	59.99
MH-PB-42LI	1800mah li-polymer; Ken THF6A	69.99
MHS-CW4	Clip-leads; external charging/MH-C77	.99
MH-C77 Plus II	Univ cgr/analy; lith/nicd/nimh	74.99
MH-C888	Univ drop-in rapid cgr/cond; nicad/nimh	59.99
MHS-C800U	External charger pin shell ...†	.49
MHS-C801	Cup; T2/W32/TH22/79/FT10/50	7.99
MHS-C802	Cup; IC02AT/TH78/FT470/530 Δ	.99
MHS-C803	Cup; Kenwood TH-D7A/G71A ...	7.99
MHS-C804	Cup; lcom IC-T8A/T81A .....	.99
MHS-C806	Cup; Ali 195/580/1/G5/V5/etc	7.99
MHS-CD-777	Cig lighter cord	5.99
MH-101-11	Cgr/lo157/160/174/132/2Mah 132B/G D	.99
MH-101-Y1	Cgr/Yae 101/112/172/25/27Mah 1227 D	.99
MH-800K	500mw spkr/mic w/clip; Kenwood ..	19.99
MH-800S	500mw spkr/mic/clip; Ali/cou/Sta/Yae	19.99
MH-800Y	500mw spkr/mic; Yae FT50/VX1R ..	24.99
MHS-K1	Ken 25/26/75/77 adapt; A301/302 ..	.19
MHS-K2	Ken TH22/79 adapter; A301/302 ...D	.19
MHS-Y3	Yae FT11/41/51 adapt; A301/302 D	.19

MALDOL (MAL)

AH-14	20m telescoping ant w/BNC; FT-817 D	\$ 45.99
AH-28	10m telescoping ant w/BNC; FT-817 D	39.99
AH-37	40m loading coil only w/BNC; FT-817 D	33.99
AH-C14	20m loading coil only w/BNC; FT-817 D	29.99
AH-C21	15m loading coil only w/BNC; FT-817 D	29.99
AH-C28	10m loading coil only w/BNC; FT-817 D	29.99
AH-R	Telescoping whip; AH-C71/14/21/28 D	17.99
AH-510R	62m/440 37" BNC tele whip; FT817/HT D	49.99
AH-W100RX	70-900MHz 40" tele BNC rcv ant	32.99
AS-20	2m/440 8.5" superflex SMA antenna ..	26.99
AS-25	2m/440 1" SMA antenna	19.99
AS-30	2m/440 15" 0/2.15db superflex SMA ant	29.99
AX-50	2m/440 0/5db 21" mobile antenna	49.99
AX-75	2m/440 3.2/5.7db 30" mobile ant	59.99
AX-95	2m/440 3.3/5.8db 38" mobile ant	66.99
EM-B80	Small trunk/hatch/van door lip mt ..	25.99
EX-104B	2m/440 black 0/2.15db 15" mob	44.99
EX-104BNDM	2m/440 blk 0/2.15db 15" NMO	44.99
EX-107RB	2m/440 black 2.6/4.9db 29" mob	56.99
EX-107RBNDM	2m/440 blk 2.6/4.9db 29" NMO	56.99
EX-510B	6m/2m/440 blk 0/2.15/5.5db 37" mob	66.99
EX-510BNDM	6m/2m/440 blk 0/2.15/5.5db 37" NMO	66.99
FVS-50	Dlx 2-step 16' 9" cable w/UHF connects D	19.99

Maldol - continued

HMC-6S	20/15/10/6/2m/440 66" mobile ant	159.99
HMC-7C	40m loading coil for HMC-6S	34.99
HMC-35C	80/75m loading coil for HMC-6S	39.99
HVU-8	80/40/20/15/10/6/2m 8.6" vert w/radials	319.99
MH-209	2m/440 3" BNC duck	23.99
MH-209SMA	2m/440 3" SMA duck	23.99
MH-510	6m/2m/440 0/0/3.2db 20.75" SMA duck	37.99
MH-511	6m/2m/440 4" SMA duck	33.99
MH-610	2m/220/440 0/1.8/3.2db 14" SMA duck	49.99
MK-30H	Motorized tnl lip/hatch/van door mt	109.99
MK-RR	Roof rack bracket for MK-30H	19.99
PRM-T	Large trunk/hatch/van door lip mt	33.99
SHG-140B	2m 4.1db 56" mobile antenna ...D	24.99
SHG-140BNDM	2m 4.1db 56" NMO mob ant D	29.99

MEADE (MEA)

07139	1.25" 18mm WA lens	Δ \$ 24.99
07173-02	1.25" 15mm super Plossl lens	Δ 34.99
07273	#126 1.25" 2x short-focus Barlow lens ..	Δ 34.99

MEADOW RIDGE (CRO)

SOLID COPPERWELD ANTENNA WIRE

AN-122	100 feet No. 12	\$ 39.99
AN-123	150 feet No. 12	49.99
AN-124	250 feet No. 12	79.99
AN-126	500 feet No. 12	139.99
AN-128	1000 feet No. 12	239.99
AN-142	100 feet No. 14	29.99
AN-143	150 feet No. 14	39.99
AN-144	250 feet No. 14	49.99
AN-146	500 feet No. 14	89.99
AN-148	1000 feet No. 14	169.99
AN-181	250 feet No. 18	24.99
AN-182	500 feet No. 18	39.99

MIDLAND (MID)

18-25S	On glass mount mobile CB antenna .	\$ 19.99
21-406	Deluxe mobile speaker w/3.5mm plug	22.99
74-250C	SAME handheld WX/hazard alert radio	49.99
WT-300	AM/FM/SAME WX/hazard alert radiops	59.99
NT-1	Nautico 1 5w VHF marine handheld ..D	49.99
AVP-5	Acbs/cgr/vcft/dap/acadap/heads/mnt D	24.99
GXT-500VPA	22ch 5w GMRS/FRS hh/batts D,pair	79.99
GXT-650VPA	22ch 5w GMRS/FRS hh/batts	89.99
LXT-210VP	22ch 2w GMRS/FRS hh/batts	39.99

Miracle Antenna (MIA)

Ducker IL	In-line HF rcv tuner; HHV/ORP xmit	\$129.99
Miracle Whip	3.5-450MHz 57" QRP ant/tuner	129.99

MIRAGE (MIR)

A-1015G	50-52 FM/SSB 10/150w amp/preamp	\$359.99
B-34	2m FM 2/35w amplifier; no mob bkt	89.99
B-34G	2m FM/SSB 2/35w amp/preamp	109.99
B-310G	2m FM/SSB 4/100w amp/preamp	209.99
B-320G	2m FM/SSB 50/200w amp/preamp ..	459.99
B-1018G	2m FM/SSB 10/160w amp/preamp	369.99
B-2518G	2m FM/SSB 25/160w amp/preamp	299.99
B-2530G	2m FM/SSB 25/300w amp/preamp	679.99
B-5018G	2m FM/SSB 50/160w amp/preamp	299.99
B-5030G	2m FM/SSB 50/300w amp/preamp ..	669.99
BD-35	2m/440 4/45/14/35w HT amp	159.99
B-24G	5/50w 2m HT dock boost amp/pre ..	109.99
MI-1	Ico 2G/02/2/23 adapter; B24G/BD25 D	.99
MI-2	Ico 2SAT/W2 adapter; B24G/BD25 ..Δ	.99
MI-3	Ico W21AT/X21AT adapt; B24G/BD25	.99
MK-1	Ken 25/26/75/77 adapt; B24G/BD25 ..	6.99
MK-2	Ken 22/79 adapter; B24G/BD25	9.99
MY-1	Yae 23/411E/470 adapt; B24G/BD25 Δ	.99
MY-2	Yae 26/415/530w adapt; B24G/BD25 Δ	.99
C-22G	220 FM/SSB 2/20w amp/preamp	159.99
C-211G	220 FM/SSB 2/110w amp/preamp	329.99

Mirage - continued

C-1012G	220 FM/SSB 10/120w amp/preamp	329.99
C-1022G	220 FM/SSB 10/220w amp/preamp	699.99
C-2512G	220 FM/SSB 25/120w amp/preamp	309.99
D-15N	430 FM/SSB/ATV 2/15w type N amp ...	189.99
D-26N	440 FM/SSB 2/60w type N amplifier ..	279.99
D-1010N	440 FM/SSB 10/100w type N amp ..	379.99
D-3010N	440 FM/SSB 30/100w type N amp ..	349.99
D-1010-ATVN	430 ATV 10/100w type N amp ..	399.99
RC-1*	Remote control head w/18' cable	49.99

*Not for B-23/C-22/D-26

RC-2 Rem cti head/cable; B-X118G

49.99

The following Repeater Amplifiers are Special Order. Specify SO-239 or type N connectors.

A-1015NR	6m FM 2/80w type N amplifier	\$549.99
A-1015R	6m FM 2/80w SO-239 amplifier	529.99
C-211NR	220 FM 5/80w type N amplifier	619.99
C-211R	220 FM 5/80w SO-239 amplifier	599.99
C-1012NR	220 FM 5/90w type N amplifier	619.99
C-1012R	220 FM 5/90w SO-239 amplifier	599.99
C-2512NR	220 FM 15/90w type N amplifier	589.99
C-2512R	220 FM 15/90w SO-239 amplifier ..	569.99
D-1010NR	440 FM 4/80w type N amplifier	629.99
D-1010-ATVN-R	430 ATV 4/80w type N amp ..	629.99
D-3010NR	440 FM 12/80w type N amplifier ..	599.99

PREAMPS

KP-1/10M	10m in shack N preamp	Δ \$ 79.99
KP-1/6M	6m in shack N preamp	139.99
KP-1/2M	2m in shack N preamp	139.99
KP-1/440	440 in shack N preamp	139.99
KP-2/10M	10m mast mount N preamp	Δ 79.99
KP-2/6M	6m mast mount N preamp	184.99
KP-2/2M	2m mast mount N preamp	184.99
KP-2/440	440 mast mount N preamp	184.99

NCG (NCG)

Power Pocket	12v 2AH lead acid belt batt/cgr	\$ 66.99
--------------	---------------------------------	----------

NCS (NCS)

NCS-3230	Multi-receiver receive console	\$349.99
NCS-1514	Wall power supply; NCS-3230 ...	24.99
NCS-P2PH35-A	Multi-rt/spkr out set 6 cables	26.99
NCS-MRX2MS-A	3240 & 3230 interface cbl kit	49.99
NCS-3240	Multi-switcher audio device	299.99
NCS-1512	Wall power supply; NCS-3240 ...	12.99
NCS-LoZ	Unterminated interface cable ..	17.99
NCS-LoZ8PI-I	Icom 8-pin interface cable	24.99
NCS-LoZRI45-I	Icom RJ-45 interface cable	23.99
NCS-LoZ8PI-K	Kenwood 8-pin interface cable	24.99
NCS-LoZRI45-K	Kenwood RJ-45 interface cbl	23.99
NCS-LoZ8PI-Y	Yaesu 8-pin interface cable	24.99
NCS-LoZRI12-Y	Yaesu RJ-12 interface cable	23.99
NCS-LoZRI45-Y	Yaesu RJ-45 interface cable	23.99

Night Owl Optics (NOO)

NODS-5	5x48 night vision scope w/illuminator Δ	\$169.99
NOCA-42	Camera adapter	Δ 19.99
NOXG-2	3xG2 night vision scope w/illuminator Δ	699.99
NOCA-42	Camera adapter	Δ 19.99

NORCOMM (NOR)

NC-101	Tunable CTCSS encoder	\$ 21.99
NC-104	Programmable CTCSS encoder	26.99
NC-106	Prog CTCSS encoder/decoder	62.99
NC-401	Sub-miniature DTMF decoder	62.99

Oregon Scientific (ORE)

WMR-112A	Wireless weather station	D \$119.99
----------	--------------------------------	------------

OUTBACKER (OUT)

OB-8	75-10m 300w PEP 6' 8-band mobile ant	\$319.99
OB-8HP	75-10m 500w PEP 6' 8-band mob ant	329.99
OB-S8	75-10m 300w PEP split ant/storage bag	329.99

Outbacker - continued AES Price

OB-8TRI 75-10m 300w PEP 3pc 6' port ant/bag	339.99
Joey 80-2m 20w antenna w/counterpoise	299.99
MicroMount Tripod system for Joey	49.99
OB-M 75/40/20/17/10m/HF marine 300w PEP 6'	449.99
Perth 75-10m 150w PEP 7.5' mobile ant	329.99
Perth Plus 75-10m+6m/2m 150w PEP 6' mob ant	329.99
Stealth Plus 75-10m+6/2m 100w PEP 4' ant	319.99
Outreach 160-10m 300w PEP 12' antenna	419.99
Outreach 500 80-6m 600w PEP 12' antenna	449.99
Outpost Base tripod mtg system for mobile ant	199.99
OB-SB ¼-24 spring and ½" hole base	129.99
Diamond K-400/3/8C ¼-24 trunk mt, 6' coax	73.99
Diamond C-110 10' ext cable; K-400/3/8C	159.99

PDK Technologies (PDK)

LifeFlare 3-Pk 3-pack red LifeFlare/carry bag \$ 29.99

Palomar Engineers (PAL)

PT-340 Tuner-Tuner (use with ant tuner)	\$ 99.99
RFI-4 RF interference kit	25.99
VLF-A VLF converter; 10-500 KHz to 80m	99.99
VLF-S VLF conv; 10-500 KHz to 4-4.5 MHz	99.99

PALSTAR (PLS)

AT-1KM 600w T-match differential tuner/crossneedle mtr	\$399.99
AT-4K 2.5kw T-match edgedwood roller ind tuner	895.99
AT-5K 3.5kw T-match ceramic roller ind tuner	1195.99
AT-1500CV 750w T-match ceramic roller ind tuner	479.99
AT-1500DT 750w differential antenna tuner	479.99
AT-AUTO 1500w automatic antenna tuner	1295.99
BT-1500A 750w dual edgedwood roller ind tuner	695.99
DL-2K 2000w 30MHz dummy load w/fan	199.99
ZM-30 1-30MHz antenna analyzer	399.99

PAR (PAR)

SK-432 Type N stacking harness; OA-432	\$ 9.99
--	---------

PENETROX (PEN)

Penetrox A 4 oz tube for antennas	\$ 14.99
-----------------------------------	----------

POLYPHASER (PLY)

LIGHTNING PROTECTION

IS-50NX-C2 125-1000 375/125/50w N flange	\$ 62.99
IS-50UX-C0 1.5-400 2kw/375/125w flange mt	62.99
IS-50UX-C1 50-700MHz 375/125w flange mt	62.99
IS-B50LN-C2 125-1000 375/125/50w N bulkhead	65.99
IS-B50LU-C0 1.5-400 2kw/375/125w bulkhead	65.99
IS-B50LU-C1 50-700 375/125w bulkhead mt	65.99
FB Adapter Flange to bulkhead mt adapter	1.99
PLD0-120US15A 120v 15A power protector	169.99
PLD0-120US20A 120v 20A power protector	199.99
IS-RCT 8-wire rotor control protector	99.99
J-1 1/2" to 1 1/2" bronze transition clamp	11.99
J-2 1 1/2" to 2 1/4" bronze transition clamp	4.99
IS-SPTL Single phone line protector	69.99
IX-T17 Single phone line protector	89.99
CS112-25 25' 1 1/2" copper strap	49.99
CS112-50 50' 1 1/2" copper strap	89.99
CS112-100 100' 1 1/2" copper strap	169.99
CS3-25 25' 3" copper strap	99.99
CS3-50 50' 3" copper strap	129.99
CU-SP6P Copper single point ground panel	179.99
TK-2 1 1/2" strap to Rohn twr corrosion free clamp	8.99
TK-3 1 1/2" strap-2 1/4" to 3 1/4" mast corr free clamp	4.99
1C-112S #6-#1 wire to 1 1/2" strap clamp bond	31.99
58R-112S 1 1/2" strap to 3/8" gnd rod clamp bond	30.99
UNI-KIT 2TC Gnd kit; galv twr leg to copper	14.99
UNI-KIT 2CC Ground kit; coax to copper	45.99
CGK Copper cleaning kit; 4 oz can, brush	28.99
LPGS Lightning Protection/Grounding book	20.00

POWERWERX (POW)

Cig-2-0EM-5-15A 5' 15A cig plug to T-male conn	\$ 14.99
Cig-2-PP-5-15A 5' 15A cig plug to Powerpole	14.99
PP-2-0EM-5 5' Powerpole to T-male conn	14.99
PP-45-2Ring-10G 6' Powerpole to ring terms	13.99
PP-RB-30-10 10-pair 30A Powerpole connectors	9.99
PP-RB-30-25 25-pair 30A Powerpole connectors	19.99
PP-RB-45-10 10-pair 45A Powerpole connectors	14.99
PP-RB-45-25 25-pair 45A Powerpole connectors	29.99
PS-4 4-terminal 45A Powerpole splitter	14.99
PS-4 Plus 4-terminal 45A "X" Powerpole splitter	14.99
PS-6A 8-terminal 45A Powerpole tap splitter	31.99
PS-8 8-terminal 45A Powerpole splitter	24.99
RB-12-25 25' 12ga red/black DC pwr zip cord	22.99
RB-14-25 25' 14ga red/black DC pwr zip cord	14.99
SOC-PP-1-15A 15A cig socket to Powerpole	14.99

PREMIER (PRE)

AL-800 2m/440 34" BNC rubber duck ant	\$ 29.99
RD-2 2m/440 2" BNC duck	14.99
RD-2SMA 2m/440 2" SMA duck	15.99
RD-8 2m/440/900 6.5" BNC duck	14.99
RD-9 2m/440/900 7" BNC duck	18.99
RD-9SMA 2m/440/900 7" SMA duck	20.99
RD-78 2m/440/900 15" BNC whip	19.99
RD-98 2m/440 17" BNC whip	24.99
RD-98SMA 2m/440 17" SMA whip	27.99
SPM-100 Spkr/mic; ADI/Alinco/Icom/Yaesu	31.99
SPM-101 Spkr/mic for Kenwood	31.99
SPM-102 Spkr/mic; Yaesu FT-50R/VX-1R/5R	31.99
SPM-400A Boom/mic; ADI/Alinco/Icom/Yaesu	39.99
SPM-402A Boom mic; Yae FT-50R/VX-1R/5R	39.99

PRO AM by VALOR (VAL)

ASTATIC MOUNTS

AST-MMK Heavy duty 3/8-24 magnet mt kit	\$ 29.99
AST-NMO NMO mounting adapter	6.99
AST-SO239 SO-239 mounting adapter	6.99
AST-TMK Universal 3/8-24 trunk mount kit	29.99
AST-NMO NMO mounting adapter	6.99
AST-SO239 SO-239 mounting adapter	6.99

VHF/UHF ANTENNAS (No Mounts)

MO144-440 2m/440 antenna only	\$ 21.99
PAQA 136-515 MHz ¼ wave antenna only	10.99
PHB-144 2m ¼ wave 3 db antenna only	29.99

MOUNTS ONLY FOR ABOVE ANTENNAS

PAMB Black low profile NMO mag mt w/coax	\$ 24.99
PAN38 ¾-24 antenna to NMO mt adapter	14.99
PAS ¾" NMO mount w/coax	19.99
PASMO ¾" NMO mt only (no coax)	7.99
PAT-2B Black no hole NMO trunk mt w/coax	19.99

OTHER VHF/UHF ANTENNAS & MOUNTS

100ADN SO-239 horizontal mirror mt	\$ 10.99
101ADN HD alum mirror mt w/SO-239	10.99
105ADT Heavy duty ¾" mount assembly	6.99
105HDT Heavy duty mount assembly	3.99
120 Sawtooth hump mt for mobile radios	9.99
301 4' low profile ¾-24 magnet mt w/coax	16.99
401 5' low profile ¾-24 magnet mt w/coax	19.99
407-18 18' RG59 Harness PL259-PL259	9.99
DAX-AD Mt for 2 vert ants or horizontal dipole	13.99
GM-144 2m 2.5db on glass antenna	39.99
GM-270 2m/440 2.6/6.3db on glass antenna	59.99
TGMKD On glass replacement mtg kit	8.99
MM-3401 Maxi-mag mt ¾-24/NMO kit (3-5" mags)	59.99
SS-100MOT 3-way NMO mirror mt w/coax	23.99
CX-144 2m ¼ wave 3db ¼-24 whip	19.99
MM-270B 2m/440 micro mag mt ant w/BNC	19.99
PM-144-440BN 2m/440 BNC mag mt ant	29.99
PM-3B Micro mag mt monitor ant w/BNC	19.99
TGS 112-1200MHz on-glass scanner ant w/BNC	34.99

Pro Am - continued AES Price

VAA-002B 144-450 black ¼ wv mag mt ant	23.99
VAA-002BBN 144-450 black ¼ wv BNC mag ant	24.99

MOBILE HF ANTENNAS (No Mounts)

AB-5/PHF-SB 75/40/20/15/10m mobile ant D	\$ 89.99
PHF-160B 160m 8' ¾-24 whip	89.99
PHF-75B 75m 8' ¾-24 whip (4' coil, 4' whip)	29.99
PHF-40B 40m 8' ¾-24 whip (4' coil, 4' whip)	23.99
PHF-30B 30m 8' ¾-24 whip (4' coil, 4' whip)	23.99
PHF-20B 20m 8' ¾-24 whip (4' coil, 4' whip)	23.99
PHF-17B 17m 8' ¾-24 whip (4' coil, 4' whip)	23.99
PHF-15B 15m 8' ¾-24 whip (4' coil, 4' whip)	23.99
PHF-12B 12m 8' ¾-24 whip (4' coil, 4' whip)	23.99
PHF-10B 10m 8' ¾-24 whip (4' coil, 4' whip)	23.99
PHF-6B 6m 58" ¾-24 whip	23.99

103S Quick disconnect/5 twist lock connectors 24.99

ASTATIC MOBILE HF ANTENNA (No Mount)

AST-6BTV 75/40/20/15/10/6m mobile ant	\$ 119.99
AST-GPK 3/8-24 mounting/ground plane kit	29.99

QRZ (WAL)

Ham QRZ US & international calls plus programs	\$ 24.99
--	----------

QSL Card Holders (ART)

QSL Card Holders, pack of 3, 20 cards/holder	\$ 18.99
--	----------

RCA (RCA)

108/F60 F-56 connector w/o-ring for RG-6	\$ 29
ACAC-5960 TV coax hex crimp tool	9.99
AC-19 6' audio cable w/RCA plugs	2.99
AC-211 25' audio cable w/RCA plugs	3.99
ANT-1020 VHF TV/UHF TV/FM indoor ant	19.99
VH-84 6' audio/video cbl w/gold RCA plugs	3.99

RF PARTS (See Diamond)

RADIOWAVZ (RAD)

160MC/BALUN 250' 160m dipole w/1:1 balun	\$ 75.99
80MC/BALUN 130' 80m dipole w/1:1 balun	55.99
40MC/BALUN 66' 40m dipole w/1:1 balun	45.99
30MC/BALUN 46' 30m dipole w/1:1 balun	45.99
20MC/BALUN 32' 20m dipole w/1:1 balun	37.99
17MC/BALUN 26' 17m dipole w/1:1 balun	33.99
15MC/BALUN 22' 15m dipole w/1:1 balun	33.99
12MC/BALUN 19' 12m dipole w/1:1 balun	33.99
10MC/BALUN 17' 10m dipole w/1:1 balun	33.99
160M-DBZ 265' 160m double bazooka antenna	125.99
75M-DBZ 127' 75m double bazooka antenna	75.99
40M-DBZ 70' 40m double bazooka antenna	45.99
B-11A 1:1 160-6m voltage balun	19.99
B-14VA 4:1 160-10m voltage balun	19.99
B-19TX 9:1 160-10m isolation balun	29.99
DPH Dipole head w/eye hook	9.99
G5RV 102' G5RV antenna, 32' tall	36.99
G5RV JR 51' G5RV antenna, 14' tall	25.99
G5RV LITE 68' G5RV antenna, 32' tall	40.99
G5RV MAX 204' G5RV antenna, 56' tall	65.99
J8X-U1 1.5' RG-8X coax/silver teflon PL259s	9.99
J8X-U3 3' RG-8X coax/silver teflon PL259s	11.99
J8X-U6 6' RG-8X coax/silver teflon PL259s	14.99
J8X-U12 12' RG-8X coax/silver teflon PL259s	22.99
J8X-U25 25' RG-8X coax/silver teflon PL259s	29.99
J8X-U50 50' RG-8X coax/silver teflon PL259s	37.99
J8X-U75 75' RG-8X coax/silver teflon PL259s	49.99
J8X-U100 100' RG-8X coax/silver teflon PL259s	63.99
J213-U1 1.5' RG-213 coax/silver teflon PL259s	14.99
J213-U3 3' RG-213 coax/silver teflon PL259s	16.99
J213-U6 6' RG-213 coax/silver teflon PL259s	17.99
J213-U12 12' RG-213 coax/silver teflon PL259s	24.99
J213-U25 25' RG-213 coax/silver teflon PL259s	34.99
J213-U50 50' RG-213 coax/silver teflon PL259s	55.99
J213-U75 75' RG-213 coax/silver teflon PL259s	73.99
J213-U1X 100' RG-213 coax/silver teflon PL259s	94.99

RadioWavz - continued AES Price

J213-U12X 125' RG-213 coax/silver teflon PL259s	114.99
J213-U15X 150' RG-213 coax/silver teflon PL259s	136.99

SGC (SGC)

52-96 SG-500 1.8-24MHz 12v 500w PEP amp	1299.99
51-82 Fan kit; continuous duty xmit SG500	220.99
54-14 SG-230 200w 1.8-30 MHz 12v Smarttuner	499.99
54-15 SG-235 500w 1.8-30MHz 12v Smarttuner	1169.99
54-18 SG-237 100w PEP HF+6m mini Smarttuner	299.99
54-22 SG-239 200w Smarttuner	195.99
54-63 SmartLock; SG230/237/239 after 9/1/93	60.99
54-25 MAC-200 Smarttuner/ant switch combo	265.99
55-28 SG-307 1.8-60 7' mobile whip & mt	390.99
55-69 SG-307 whip only	140.99
55-50 QMS-37 Quick mt sys/SG-237, less whip	469.99
70-14 ADSP2 DSP noise reduction speaker	160.99

SAMLEX (SAM)

FCP-1000 1A ps w/cigarette lighter socket	\$ 7.99
SEC-1223 23A switching power supply w/fan	99.99
SEC-1235 30A switching ps w/fan, 35A surge	129.99
SEC-1235M 30A switch ps/fan/meters, 35A surge	139.99
SI-175HP 175w 12vdc-115vac inverter	29.99
SI-400HP 400w 12vdc-115vac inverter	49.99
SPS-1204UL 3.5A switching ps-cig socket	29.99

SANGEAN (SAN)

ATS-404 AM/FM/SW portable receiver w/case	\$ 79.99
ATS-505P AM/FM/SW portable receiver	129.99
ATS-606AP AM/FM/shortwave portable receiver	139.99
ATS-909 AM/FM/shortwave portable Rcvr	249.99
DT-200V AM/FM/VHF TV sound dig port Rcvr	64.99
PR-D2 AM/FM portable dark grain "Q" radio	89.99
PT-50 AM/FM/SW portable receiver	39.99
PT-80 Deluxe AM/FM/SW portable receiver	159.99
RCR-2 AM/FM atomic clock radio	69.99
WR-1 AM/FM wooden cabinet receiver	119.99
ANT-60 Portable wind-up SWL antenna	13.99

SCANCAT (SCA)

Lite-Plus Scanner programming software	\$ 19.99
Gold for Windows Dlx scanner prog software	69.99

SEQUOIA (SEQ)

POCKET PC REF Pocket PC reference book	\$ 15.99
POCKET REF Pocket reference book	12.99
WinRef 98-95 Windows pocket reference book	4.99

SHAKESPEARE (SHA)

396-1 3db 5' VHF marine ant, less mount	\$ 89.99
5101 6db 8' VHF marine ant, less mount	69.99
5202 6db 8' VHF mar ant/chrome ferrule, less mt	109.99
5206-C Econo 8' VHF mar ant/chrome ferrule, no mt	59.99
495 White plastic lift & lay mount	1.99
4187 Stainless steel ratchet mount	39.99
5215 3db 36" sailboat VHF marine ant w/mt	49.99
420 3db 5' VHF marine ant w/fold-down mt	84.99
PL-259-CP-G Solderless PL-259; RG-8X/58	7.99
PL-258-CP-G Solderless splice; RG-8X/58	11.99

Smiley Antenna (SMI)

270A 2m/220/440 gain telescopic whip	\$ 19.99
270A/SMA 2m/220/440 gain tele whip w/SMA	19.99
5/8 SLD-2 2m 1/2 Slim Duck rubber ant	19.99
5/8 SLD-2/SMA 2m 1/2 Slim Duck rubber ant/SMA	19.99
5/8 SLD-220 220 1/2 Slim Duck rubber ant	19.99
5/8 SLD-440 440 1/2 Slim Duck rubber ant	19.99
5/8 SLD-2 Combo 2m 1/2 duck & stubby ant	29.99
5/8 SLD-220 Combo 220 1/2 duck & stubby ant	29.99
5/8 SLD-440 Combo 440 1/2 duck & stubby ant	29.99
FLX 1/2 WAV-2M 1/2 wv 2m BNC whip/flex coil	25.99
RD-2 2m rubber duck antenna	15.99
RD-220 220 rubber duck antenna	15.99

Smiley - continued AES Price

RDMD-2 2m mini rubber duck antenna	15.99
RDMD-440 440 mini rubber duck antenna	15.99
RDS-2 2m stubby rubber duck antenna	15.99
RDS-220 220 stubby rubber duck antenna	15.99
RDS-440 440 stubby rubber duck antenna	15.99
SD-2 2m Slim Duck thin rubber antenna	15.99
SD-220 220 Slim Duck thin rubber antenna	15.99
SL-440 440 slimline tube duck	15.99
SS-II Super Stick 2m 1/2 wv telescopic ant	19.99
SS-III Super Stick 220 1/2 wv telescopic ant	19.99
SS-IV Super Stick 440 1/2 wv telescopic ant	19.99
SS-II/Combo 2m 1/2 wv telescopic & stubby ant	29.99
SS-III/Combo 220 1/2 wv telescopic & stubby ant	29.99
SS-IV/Combo 440 1/2 wv telescopic & stubby ant	29.99
TAQ-2 2m 1/2 wave stainless whip	10.99
TAQ-220 220 1/2 wave stainless whip	10.99
TAQ-440 440 1/2 wave stainless whip	10.99
TS Thin Stick 2m/220 1/2 wave telescopic whip	16.99

SOLARCON (SOL)

A-99 10m/CB 17' 8" fiberglass base ant	\$ 79.99
GP-1 Ground plane radial kit	59.99

SONY SHORTWAVE (SON)

ICF-SW11 AM/FM/SW compact receiver	\$ 49.99
ICF-SW12 AM/FM/SW travel Rcvr/world clock	79.99
ICF-SW35 AM/FM/SW portable receiver	89.99
ICF-SW40 AM/FM/SW portable receiver	89.99
ICF-SW7600GR AM/FM/SW portable receiver	159.99
DCC-E260 Mobile DC adapter; ICF-SC1	29.99

STICKY PAD (STI)

13810 7/8" x 4 1/2" sticky pad for handhelds, etc	\$ 5.99
13820 8 1/4" x 6 1/2" sticky pad for larger items	9.99

Synthetic Textiles (SYN)

100' 3/8" black double braided rope	\$ 9.99
100' 3/16 3/8" black double braided rope	18.99
100' 5/16 3/8" black double braided rope	26.99
350' 3/8" black double braided rope	49.99

Terk Technologies (TER)

Advantage Indoor passive fine-tunable AM ant	\$ 49.99
FM-50 Amplified indoor/outdoor FM ant kit	9.99
HDTV-1 Indoor UHF/VHF HDTV antenna	39.99
LF-30S 2.4GHz wireless vid/aud sys/rem features	99.99
LF-IRX Remote control extender	39.99
MOD-41 4-input video switch/converter	39.99
PI-B Indoor AM/amplified FM loop antenna	49.99
Tower Indoor AM/amplified FM tower antenna	24.99
TSP-6 8 outlet AC/TV/telephone surge protector	9.99
TV-42 Clip-on mini dish mt amp TV ant; 2 LNB dish	39.99
TV-55 Indoor/outdoor TV antenna	99.99
VR-1 TV volume regulator	39.99
VS4-MOD 4-input remote video switch/converter	29.99
VS4-MOD+ 4-input remote video switch/converter	49.99

Times Microwave (TMS)

LMR-400 Standard 3/8" coax cable	\$.83 per ft.
LMR-400 500 ft. Roll	319.99
LMR-400-DB Watertight 3/8" coax cable per ft.	.92
LMR-400-DB 500 ft. Roll	359.99
LMR-400-UF UltraFlex 3/8" coax cable	1.18 per ft.
LMR-400-UF 500 ft. Roll	469.99

TIMESWAVE (TIM)

ANC-4 RF noise canceller	\$209.99
AC-1 12vdc 600 ma adapter	15.99
AC-5 12vdc 1.7A desktop ps	22.99
DSP-599zx All-mode DSP noise filter	436.99
AC-5 12vdc 1.7A desktop ps	22.99
PK-96/100K 9600 baud controller/128K RAM	219.99
(CSS) PKTerm for Windows Soft; PK-96/232	99.99

Timewave - continued AES Price

AC-1 12vdc 600 ma adapter	15.99
AC-5 12vdc 1.7A desktop ps	22.99
PK-232/PSK Multimode controller w/sound card	531.99
PK-232/USB Multimode controller/sound card/USB	549.99
(CSS) PKTerm for Windows Soft; PK-96/232	99.99
AC-5 12vdc 1.7A desktop ps	22.99
TZ-900N .2-55MHz type N antenna analyzer	1299.99
TZ-900S .2-55MHz SO239 antenna analyzer	1299.99

TRAXXAS (TRX)

2410 Bandit RTR electric buggy w/TQ radio	\$ 69.99
3606 Stampede RTR electric monster truck w/ESC	99.99
3710 Rustler RTR electric stadium truck w/ESC	99.99
3706 Rustler RTR electric stadium truck w/TQ Tx	79.99
3906 E-Maxx RTR electric monster truck	269.99

TRINITY (TRN)

RC-2141 Monster horsepower stock pro	\$ 14.99
--------------------------------------	----------

TRIPP LITE (TRI)

ISOBAR-8 ULTRA 8 outlet surge suppress/LEDs	\$ 79.99
SUPER-7 7 outlet surge suppressor	19.99
SUPER-7+TEL 7 outlet/fax modem surge	29.99

TUBES (TUB)

6146B Tube	\$ 26.99
12BY7A Tube	24.99
3-500ZG-RFP High dissipation tube (3-500Z)	179.99
572B Tube	49.99
811A Tube	19.99

US TOWER (UST)

FREE STANDING CRANK-UPS (not for T'X)	
TX-438 38' crank-up tower	T 1649.99
TX-455 55' crank-up tower	T 2269.99
TX-472 72' crank-up tower	T 3729.99
TX-472MDP 72' crank-up w/motor drive	T 5999.99
TX-489MDPL 89' crank-up w/motor drive	T 9729.99

FREE STANDING HD CRANK-UP TOWERS

HDX-538 38' crank-up tower	T 1959.99
HDX-555 55' crank-up tower	T 3419.99
HDX-572MDPL 72' crank-up w/motor drive	T 8919.99
HDX-589MDPL 89' crank-up w/motor drive	T 11669.99
HDX-689MDPL 89' HD crank-up w/motor	T 22549.99
HDX-5106MDPL 106' HD crank-up w/motor	T 24529.99

COMPACT TMM (Top mt rotor for full retraction)

TMM-433SS 33' crank-up tower	T 1759.99
TMM-433HD 33' HD crank-up tower	T 2119.99
TMM-541SS 41' crank-up tower	T 2299.99

ACCESSORIES FOR CRANK-UP TOWERS

CX-2 Coax arms (2) for 2-section tower	\$ 80.99
CX-3 Coax arms (3) for 3-section tower	111.99
CX-4 Coax arms (4) for 4-section tower	164.99
CX-5 Coax arms (5) for 5-section tower	224.99
CX-6 Coax arms (6) for 6-section tower	284.99
HDP Service platform	T 1619.99
IV-16 Inverted vee arm for MA's	60.99
M-5 2" OD 5' mast extention for MA's	60.99
M-10 2" OD 10' mast	112.99
M-15 2" OD 15' mast	154.99
M-15R 2" OD 15' reinforced mast	234.99
M-20 2" OD 20' mast	199.99
M-20R 2" OD 20' reinforced mast	299.99
CM-20 2" OD 20' cromoly mast	T CALL
MD-75 Heavy duty 1 HP motor drive	T 1319.99
MDP-750* Pull-down drive; TX-472/HDX-555 T	2049.99
MDPL-1000* Pull-down drive; HDX-572 T	2779.99
*Requires MCL-1000 or RMC-1000. MDP-750 and MDPL-1000 not sold separately	
MRF Mast raising fixture	389.99
MCL-1000 Limit switch package	629.99

US Tower - continued

AES Price

RMC-1000 Remote control w/limit switch	1319.99
TRX-80 Raising fixture; TX-438/455; HDX-538/555 T	599.99
TRX-80HD Raising fixture; TX-472/489; HDX-572/589 T	799.99
TRX-100HD Raising fixture; HDX-689/5106 T	1079.99

TB-2US Thrust bearing; 2" mast w/2 flange holes	144.99
---	--------

MA-SERIES TUBULAR TOWERS

MA-40 40' crank-up tubular tower	T 1299.99
MA-550 55' crank-up tubular tower	T 2019.99
MA-550MDP 55' crank-up tubular w/motor T	3859.99
MA-770* 70' crank-up tubular tower	T 3329.99
MA-770MDP* 70' crank up tubular w/motor T	5279.99
MA-850* 85' crank-up tubular tower	T 5159.99
MA-850MDP* 85' crank-up tubular w/motor T	7099.99

*Requires MAB or MARB-series base

MA-SERIES ACCESSORIES

CX-2M Coax arms (2) for MA-40	\$ 85.99
CX-3M Coax arms (3) for MA-550	119.99
CX-4M Coax arms (4) for MA-770	199.99
CX-5M Coax arms (5) for MA-850	234.99
MAB-40 Hinged base for MA-40	T 489.99
MAB-550 Hinged base for MA-550	T 579.99
MAB-770 Hinged base for MA-770	T 699.99
MAB-850 Hinged base for MA-850	T 849.99

MAF-40 Raising fixture for MA-40	299.99
MAF-550 Raising fixture for MA-550	T 409.99
MAF-770 Raising fixture for MA-770	T 519.99
MAF-850 Raising fixture for MA-850	T 639.99
MARB-40 Rotor base accessory for MA-40	T 739.99
MARB-550 Rotor base accessory for MA-550 T	849.99
MARB-770 Rotor base accessory for MA-770 T	1029.99
MARB-850 Rotor base accessory for MA-850 T	1219.99

All US TOWER products are drop-shipped (shipped direct to you from the US TOWER factory). On these factory drop-shipments we prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your drop-shipped merchandise. Shipment is FOB Woodlake, California or Lincoln, Kansas via truck, COD for freight charges only. Freight charges will be collected upon delivery by the carrier. You can obtain shipping charges from any AES salesperson by phone or email. Please allow sufficient time for delivery on these special order products. Most truck lines will not unload the tower for you, so please be sure to have enough manpower and/or equipment on hand when your tower is delivered by the carrier.

UNADILLA (See W2AU)

UNIDEN (UNI)

PC-68 Elite AM Mobile CB w/WX alert	\$ 99.99
PC-68LTW AM Mobile CB w/WX alert	79.99
PC-68XL AM Mobile CB	74.99
PC-78 Elite AM Mobile CB w/WX alert	119.99
PC-78LTW AM Mobile CB w/WX alert	99.99
PC-78XL AM Mobile CB	94.99
PRO-510XL AM Mobile CB	39.99
PRO-520XL AM Mobile CB	59.99
PRO-538W AM Mobile CB w/WX	59.99

UNIDEN BEARCAT

BC-340CRS 100 ch scanner w/SAME WX	\$ 99.99
BC-350C 100 ch prog/service search w/AC ps	99.99
BC-370CRS 300 ch scanner/800/SAME WX	139.99
BC-898T 500 ch prog scanner/trunking/preprog	209.99
BC-996T 6000 ch prog/trunk/SAME WX/dig	549.99
BC-RH96 Remote head for BCD-996T	199.99
BCT-8 Preprog warning scan/800/trunk/AC ps	179.99
BCT-15 2500 ch prog scanner/800/trunk	239.99
BC-RH96 Remote head for BCT-15	199.99
BC-72XL 100 ch pocket scanner	99.99
BC-92XLT 200 ch prog pocket scanner/800 D	109.99
BC-95XLT 200 ch prog pocket scanner/800	119.99

Uniden - continued

AES Price

AD-70 Extra charger	10.99
AD-100 AC adapter/batt cgr; earlier scanners	1.99
BBTY0356001 Extra battery for BC-296D	14.99
BC-003 Switch box for BC-002	.29
BCI-250 Digital board for BC-785D/250D	139.99
BP-120 Extra battery; SC180B/SC200	18.99
BP-180 Extra battery for BC-245XLT	16.99
BP-200 Extra battery for BC-200XLT	26.99
BP-205 Extra battery for BC-100XLT	26.99
CRX-120 Desk charger for BC-245XLT	9.99
LC-120 Carrying case; BC230XLT/245XLT	6.99
NC-250D Carrying case for BC-250D/296D	9.99
UA-502 Cig power cord	9.99
SC-230 1600+ch pocket/800/SAME WX	199.99
BC-246T 1600+ ch pocket scanner/trunking	229.99
BADG0687001 DC cord	22.99
NC-246T Carrying case	19.99
BR-330T 2500 ch pocket/trunking/race track D	279.99
BADG0687001 DC cord	22.99
BC-RH96 Remote head	199.99
BCD-396T 3000+ch pocket/trunk/SAME/dig	549.99
BADG0687001 DC cord	22.99
BC-RH96 Remote head	199.99

MARINE

Atlantis-250 5w VHF marine handheld	\$ 99.99
MHS-350 Waterproof 5w VHF marine handheld	149.99
Mystic 5w VHF marine handheld/GPS/DSC	D 269.99
Voyager 5w VHF marine handheld/lith ion batt	169.99
Oceanus-DSC 25w 90 ch VHF marine Xcvr/DSC	139.99
Polaris 25w VHF marine Xcvr w/hailer	D 119.99
Solara-DSC 25w 90 ch VHF marine Xcvr/DSC	99.99
UM-525 25w VHF marine Xcvr w/hailer	199.99
UM-625C 25w VHF marine Xcvr/color TFT/hailer	299.99

Unified Microsystems (UNM)

VK-64 CW/voice keyer	\$229.99
KC-4 CW cable for VK-64 to transceiver	9.99
VKC-8 8-pin audio cable for VK-64 to Xcvr	24.99
XT-4 Small size CW memory keyer	69.99
KC-4 CW cable for XT-4 to transceiver	9.99
W9XT Contest card for IBM PC & compatible	139.99
CCC-8 8pin mic contest card cable semi-kit	44.99

Universal Towers (UNT)

4-30 4 sq ft wind load 30' alum tower	T \$359.99
9-30 9 sq ft wind load 30' alum tower	T 483.99
12-30 12 sq ft wind load 30' alum tower	T 635.99
21-30 21 sq ft wind load 30' alum tower	T 755.99
23-30 23 sq ft wind load 30' alum tower	T 999.99
35-30 35 sq ft wind load 30' alum tower	T 1125.99
4-40 4 sq ft wind load 40' alum tower	T 602.99
7-40 7 sq ft wind load 40' alum tower	T 756.99
9-40 9 sq ft wind load 40' alum tower	T 843.99
12-40 12 sq ft wind load 40' alum tower	T 999.99
15-40 15 sq ft wind load 40' alum tower	T 1116.99
21-40 21 sq ft wind load 40' alum tower	T 1215.99
23-40 23 sq ft wind load 40' alum tower	T 1459.99
4-50 4 sq ft wind load 50' alum tower	T 847.99
5-50 5 sq ft wind load 50' alum tower	T 964.99
7-50 7 sq ft wind load 50' alum tower	T 1085.99
9-50 9 sq ft wind load 50' alum tower	T 1206.99
15-50 15 sq ft wind load 50' alum tower	T 1577.99
16-50 16 sq ft wind load 50' alum tower	T 1680.99
4-60 4 sq ft wind load 60' alum tower	T 1207.99
6-60 6 sq ft wind load 60' alum tower	T 1481.99
7-60 7 sq ft wind load 60' alum tower	T 1551.99
9-60 9 sq ft wind load 60' alum tower	T 1665.99
3-70 3 sq ft wind load 70' alum tower	T 1575.99
4-70 4 sq ft wind load 70' alum tower	T 1884.99
6-70 6 sq ft wind load 70' alum tower	T 1945.99

Universal - continued

AES Price

7-70 7 sq ft wind load 70' alum tower	T 2008.99
3-80 3 sq ft wind load 80' alum tower	T 2098.99
4-80 4 sq ft wind load 80' alum tower	T 2408.99
2-90 2 sq ft wind load 90' alum tower	T 2496.99
B-14 Base for tower	78.99
B-18 Base for tower	78.99
B-22 Base for tower	119.99
B-26 Base for tower	150.99
Extra 14" stubs (between base & tower)	.set 15.99
Extra 18" stubs (between base & tower)	.set 27.99
Extra 22" stubs (between base & tower)	.set 44.99
Extra 26" stubs (between base & tower)	.set 44.99
RFM-11 Flat roof mt for guyed tower	51.99
RFM-14 Flat roof mt for guyed tower	51.99
RFM-18 Flat roof mt for guyed tower	81.99
RFM-22 Flat roof mt for guyed tower	108.99
RFM-26 Flat roof mt for guyed tower	145.99
R-11 Rotor mount	36.99
R-14 Rotor mount	55.99
R-18 Rotor mount	72.99

SEE LITERATURE FOR TOWER CONFIGURATIONS SPECIFY 1-5/8, 1.3 or 2-1/16" TOWER COLLAR

11 Top 11" top tower section	T 121.99
14 Top 14" top tower section	T 153.99
18 Top 18" top tower section	T 278.99
14 Taper 14" taper tower section	T 135.99
18 Taper 18" taper tower section	T 242.99
22 Taper 22" taper tower section	T 360.99
26 Taper 26" taper tower section	T 515.99
11 Straight 11" straight tower section	T 119.99
14 Straight 14" straight tower section	T 135.99
18 Straight 18" straight tower section	T 242.99
22 Straight 22" straight tower section	T 360.99
26 Straight 26" straight tower section	T 515.99
HD35-40 35 sq ft wind load 40' alum tower T	1679.99
HD21-50 21 sq ft wind load 50' alum tower T	1794.99
HD9-60 9 sq ft wind load 60' alum tower	T 1885.99
HD16-60 16 sq ft wind load 60' alum tower T	2255.99
HD21-60 21 sq ft wind load 60' alum tower T	2377.99
HD8-70 8 sq ft wind load 70' alum tower	T 2127.99
HD12-70 12 sq ft wind load 70' alum tower T	2619.99
HD17-70 17 sq ft wind load 70' alum tower T	2838.99
HD21-70 21 sq ft wind load 70' alum tower T	2960.99
HD8-80 8 sq ft wind load 80' alum tower	T 2711.99
HD9-80 9 sq ft wind load 80' alum tower	T 2828.99
HD11-80 11 sq ft wind load 80' alum tower T	3199.99
HD12-80 12 sq ft wind load 80' alum tower T	3202.99
HD16-80 16 sq ft wind load 80' alum tower T	3419.99
HD4-90 4 sq ft wind load 90' alum tower	T 2826.99
HD8-90 8 sq ft wind load 90' alum tower	T 3321.99
HD11-90 11 sq ft wind load 90' alum tower T	3784.99
HD4-100 4 sq ft wind load 100' alum tower T	3753.99
HD8-100 8 sq ft wind load 100' alum tower T	4025.99
B-30 Base for HD tower	222.99
Extra 30" stubs (between base & tower)	.set 66.99
RFM-30 Flat roof mt for guyed tower	203.99
30 Taper 30" taper tower section	T 581.99
30 Straight 30" straight tower section	T 581.99

SEE LITERATURE FOR TOWER CONFIGURATIONS SPECIFY 1-5/8, 1.3 or 2-1/16" TOWER COLLAR

1-5/8SC Flange bearing	98.99
2-3/16SC Flange bearing	109.99
Top Plate Flange plate welded to top section	26.99
1-1/4" OD x 5 ft aluminum mast	T 23.99
1-1/4" OD x 10 ft aluminum mast	T 37.99
1-1/2" OD x 10 ft aluminum mast	T 45.99
2" OD x 8 ft aluminum mast	55.99

Universal - continued

AES Price

2" OD x 16 ft aluminum mastT 99.99
All UNIVERSAL TOWERS products are drop-shipped (shipped direct to you from the UNIVERSAL TOWERS factory). On these factory drop-shippings we prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your drop-shipped merchandise. Shipment is FOB Mt. Clemens, Michigan via truck, COD for freight charges only. Freight charges will be collected upon delivery by the carrier. You can obtain shipping charges from any AES salesperson by phone or email. Please allow sufficient time for delivery on these special order products. Most truck lines will not unload the tower for you, so please be sure to have enough manpower and/or equipment on hand when your tower is delivered by the carrier.

VALOR (See PRO AM) VANCO (VCO)

370052 3/4 digit multimeter \$ 19.99
CL-3 Extra heavy duty alligator clip leads (10) 8.99
HF-24RS Scanner headphones w/dual volume 19.99
SWR-1 SWR/field strength meter 29.99
SWR-3 Mini SWR meter 14.99

VAN GORDEN (VAN)

Hi-Q 1:1 balun \$ 18.99
Hi-Q 4:1 balun 18.99
Antenna center insulator 9.99
Antenna end insulator pair 6.99
Dog bone type antenna insulator each .99
D-80 80m 130' wire dipole antenna 41.99
SD-80 Short 90' 80m wire dipole antenna 46.99
D-40 40m 66' wire dipole antenna 38.99
SD-40 Short 45' 40m wire dipole antenna 44.99
D-20 20m 33' wire dipole antenna 36.99
D-15 15m 22' wire dipole antenna 35.99
D-10 10m 16' wire dipole antenna 34.99
PD-4010 40/20/15/10m 66' parallel dipole 49.99
PD-4020 40/20/15m 66' parallel dipole 43.99
PD-8010 80/40/20/15/10m 130' parallel dipole 55.99
PD-8040 80/40/15m 130' parallel dipole 51.99
All Bander Dipole 160-10m (use tuner) 135' ant 35.99
Shorty All Bander 160-10m (use tuner) 70' ant 55.99
65RV Flat-top 3.5-30 102' ant/xmfr/100' cable 60.99
65RV-E Flat-top 3.5-30 102' ant/31' twinlead 35.99
65RV JR Flat-top 7-30 52' ant/17' twinlead 30.99
65RV-M Flat-top 1.8-30 204' ant/65' twinlead 60.99
450 ohm 18ga solid ladderline 100 ft. 24.99
450 ohm 18ga solid ladderline 1000 ft. 199.99
450 ohm 14ga stranded ladderline 100 ft. 54.99
450 ohm 14ga stranded ladderline 1000 ft. 449.99
(WA1) WA1FFL Ladder-Loc 450 ohm ctr ins 12.99
RG-213 Non-contaminating Δ, per ft. .59
8X-75ST 75' RG-8X coax/silver teflon PL259s Δ 40.99
213-50ST 50' RG-213 coax/silver teflon PL259s Δ 50.99
213-75ST 75' RG-213 coax/silver teflon PL259s Δ 72.99
213-100ST 100' RG-213 coax/silver teflon PL259s Δ 90.99

VECTRONICS (VEC)

DL-300M 300w 150MHz dummy load \$ 49.99
DL-650M 1.5kw 650MHz dummy load 79.99
DL-2500 2.5kw 150MHz dummy load 189.99
HFT-1500 1.5kw antenna tuner 429.99
HPF-1 High pass filter, 75 or 300 ohms 24.99
HPF-2 Deluxe high pass filter, 75 or 300 ohms 29.99
LP-30 1.5kw low pass filter 79.99
LP-2500 2.5kw low pass filter 119.99
PM-30HF 300/3kw HF/6m wattmeter 79.99
PM-30V 300/300w 2m/220/440 wattmeter 89.99
VC-300D 300w digital antenna tuner Δ 129.99
VC-300DLP 300w antenna tuner 159.99
VC-300M 300w mobile antenna tuner 119.99

Vectronics - continued

AES Price

121K Crystal radio set kit 19.99
131K Aircraft receiver kit 29.99
201K CW keyer kit 24.99
412K Nicad/NiMH battery conditioner kit Δ 4.99
422K FM broadcast SCA decoder kit 27.99
830K Super SSB audio filter kit 19.99
841K Tunable SSB/CW audio filter kit 34.99
1140K 40m receiver kit 29.99
1240K 40m QRP CW transmitter kit 29.99
1290K AM radio transmitter kit 29.99

VELLEMAN (VEL)

AVM-2050 Analog sound level meter \$ 29.99
AVM-089 3 channel audio/video switcher 8.99
DVM-810 3 1/2 digit digital multimeter 9.99
DVM-850BL Deluxe 3 1/2 digit DMM w/holder 19.99
EL-301 30 in 1 electronic lab kit 39.99
EL-1301 130 in 1 electronic lab kit 89.99
EL-3001 300 in 1 electronic lab kit 129.99
K/TF 75-piece cable ties 2.99
TLM-2 Test lead set w/banana plugs 2.99
TLM-10 Test probe set 4.99
VT-BT6 33-piece screwdriver bit set 6.99
VT-COAX Coax stripper; RG-58/59/62/6 14.99
VT-D2 Heavy duty desoldering pump 3.99
VT-LAMP2U Hobby magnifier lamp w/table mt 49.99
VT-M458L Crimp tool for RJ-10/11/45 9.99
VT-SET 5-piece pliers 9.99
VT-SET3N 6-pc electronics screwdriver set 9.99
VT-SET21N 8-in-1 screwdriver set 4.99
VT-TS 25-piece hobbyist tool set 9.99

VIBROPLEX (VIB)

090 Original Gold Bug \$309.99
100 Original Presentation Super deluxe bug 269.99
105 Original Deluxe Bug 209.99
110 Original Standard Bug 179.99
113 VibroKeyer Gold Paddle 279.99
115 VibroKeyer Deluxe Paddle 199.99
120 VibroKeyer Standard Paddle 159.99
123 Iambic Gold Paddle 279.99
125 Iambic Presentation Paddle 269.99
130 Iambic Deluxe Paddle 199.99
135 Iambic Standard Paddle 159.99
145 Triangular Brass Racer Iambic paddle 149.99
150 Square Brass Racer Iambic paddle 149.99
153 Gold straight key 279.99
155 Standard straight key 159.99
160 Deluxe straight key 199.99
162 Gold Hand key/Iambic Paddle double Δ 369.99
163 Gold Hand key/VibroKeyer Paddle double Δ 369.99
165 Deluxe Hand key/Iambic Paddle double 349.99
170 Dix Hand key/VibroKeyer Paddle double 349.99
175 Standard Hand key/Iambic Paddle double Δ 299.99
180 Std Hand key/VibroKeyer Paddle double 299.99
185 Square Racer Deluxe Iambic paddle 149.99
190 Square Racer Standard Iambic paddle 129.99
195 Blue Racer 2000 Std. Millennium Bug 199.99
198 Blue Racer 2000 Dix Millennium Bug 219.99
200 Code Warrior Junior Paddle 109.99
CP-3 Cord & plug for Iambic & Vibrokeyer 9.99

WA1FFL (WA1)

Ladder-Loc 450 ohm ladderline center attach \$ 12.99

W2AU (Unadilla) (W2A)

W2AU 1:1 160-10m balun, lightning arrestor \$ 24.99
W2AU 4:1 160-10m balun, lightning arrestor 24.99
W2AU Beam Balun, 1:1 24.99
W2DU-HF 1:1 1.8-30 MHz choke balun 26.99
W2DU-VHF 1:1 30-250 MHz choke balun 26.99
W2DU Beam Balun 40-10m 1:1 choke balun 26.99

W2AU - continued

AES Price

HA AN-sulator center insulator 9.99
HE END-sulator end insulators pair 6.99
KW-80CW Reyco 80m CW ant traps pair 48.99
KW-80F Reyco 75m phone ant traps pair 48.99
KW-60 Reyco 60m antenna traps pair 46.99
KW-40 Reyco 40m antenna traps pair 42.99
KW-30 Reyco 30m antenna traps pair 42.99
KW-20 Reyco 20m antenna traps pair 41.99
KW-17 Reyco 17m antenna traps pair 41.99
KW-15 Reyco 15m antenna traps pair 41.99
KW-12 Reyco 12m antenna traps pair 41.99
KW-10 Reyco 10m antenna traps pair 41.99
W2AU/W2VS 5-band ant kit (use tuner) 85.99

W4RT (W4R)

Antenna Boss interface; not ant/FT100/847/57/97 \$149.99
Antenna Boss II interface; motor ant/XC706/7000/etc 149.99
KB-2 Cable for Ant Boss II w/LDG K-OTT Δ 9.99
YB-2 Cable; Ant Boss II w/W4R YB-OTT Δ 10.99
YB-OTT FT-100/817/857/897 interface Δ 59.99
YB-2 Cable; Ant Boss II w/W4R YB-OTT Δ 10.99
OBF-703/718-DIY CW&SSB Collins filts; CT/307/18 Δ 199.99
OBF-817/ND-DIY CW & SSB Collins filts; FT-817 239.99
OBP-STD Speech compress; 817/47/57/97 handmic 49.99
OBP-UNIV Speech compress; IC706/FT100 handmic 49.99
OPF-CSW 500Hz Collins CW filter; FT817/57/97 99.99
OPF-SSB 2.3KHz Collins SSB filter; FT817/57/97 124.99

W5YI (W5Y)

BCOM Basic Communications Electronics book \$ 19.99
BDIG Basic Digital Electronics book 19.99
BELC Basic Electronics book 19.99
ECS-02 Extra upgrade software w/manual 44.99
GROL Commercial license elements 1/3/8 manual 39.99
GRSP Commercial study software w/GROL book 69.99
GSTD Getting Started in Electronics book 19.99
GUS-07 General upgrade software w/manual 44.99
GW05/CD Gordon West 8 ea 0-5 wpm code CD's 39.99
GWCT Gordon West refresher code course CD's 14.99
GWEI-02 Gordon West Extra study manual 21.99
GWEW-02/CD Gordon West 7 ea Extra theory CD's 39.99
GWEW-07 Gordon West General study manual 20.99
GWEW-07 Gordon West 4 ea General theory CD's 29.99
GWTM-06 Gordon West Tech study manual 18.95
GWTM-06 Gordon West 4 ea Tech theory CD's 27.99
HOS-07 Ham operator software/code (all classes) 39.99
HOSB-07 Ham op soft/code/3 books (all classes) 89.99
Mini-1 Timer, op amp & optoelectronics 12.99
Mini-2 Science & communications 12.99
Mini-3 Electronic sensors 12.99
Mini-4 Electronic formulas, symbols & circuits 12.99
NCS-06 Technician software w/manual 39.99
TPG-07 Tech/General software/manuals/code 69.99
WMC 0-48 wpm code software 19.99

WAHL (WAH)

7740 Quick charge cordless soldering iron kit \$ 52.99
7971 30 minute butane soldering iron 25.99
7974 120 minute butane soldering iron 39.99

Watson Gupitll (WAT)

059979 2007 World Radio TV Handbook \$ 29.95

WELLER (WEL)

7200PK 75w soldering gun kit \$ 30.99
7235 Extra standard tips (2) for 7200PK 3.99
CHT-100 ColdHeat Pro soldering tool 31.99
SP-23LK 25w soldering iron kit 18.99
WT-25 25w professional soldering iron 35.99
ST-4 1/8" screwdriver tip for WP-25 4.99
ST-5 1/8" single flat tip for WP-25 4.99
W-60P 60w temp controlled soldering iron 68.99
CT-5E7 1/8" screwdriver tip for W-60P Δ 5.99
WESD51 50w adjustable soldering station 149.99

Weller - continued

WSTA3	Pyroten portable LP soldering iron	99.99
WST2	Pyroten Jr. portable butane iron	69.99
WTCPT	60w temp controlled soldering stn	119.99

West Mtn Radio (WES)

CBA-2	Computerized battery analyzer w/software	\$109.99
CBA/TEMP	Temperature probe for CBA-2	11.99
PG-40	PWRgate simple backup power system	69.99
PG-40S	PWRgate backup power sys w/charger	129.99
RB/PR/CUSB	Rigblaster Pro; 8-pin/RJ-45	279.99
RB/PL/CUSB	Rigblaster Plus; 8-pin/RJ-45	149.99
RB/NL/CU	Rigblaster nomic universal; 8-pin/RJ-45	69.99
RB/NL/CUSB	Rigblaster nomic universal; 8-pin/RJ45	89.99
FT100/CBL	3' cable; Yaesu RJ-45/6-wire	16.99
RR/400S/C	Rigrunner 40A 50outlet/cbl/connectors	79.99
RR/400B/C	Rigrunner 40A 80outlet/cbl/connectors	109.99
RR/4010S/C	Rigrunner FET 90outlet/cbl/connectors	139.99
RR/4012/C	Rigrunner 40A 120outlet/cbl/connectors	129.99
RR/8012/C	Rigrunner 80A 120outlet/cbl/connectors	149.99
C30/PK/12	12-pair 30A PowerPole connectors	11.99
C45/PK/12	12-pair 45A PowerPole connectors	17.99
PWR/TOOL	PWRcrimp PowerPole crimp tool	49.99
RT-1	Rigtalk USB rig control interface	49.99
CATMINI/CBL	Yaesu cable for RT-1	12.99
ICV/CBL	Icom/Ten-Tec cable for RT-1	8.99
WHAT/MTR	Whattmeter watt/volt/amp/amp hr	69.99

Wiley Publishing (WIE)

GPS Dummies	Gps for Dummies book	\$ 21.99
HR for Dummies	Ham Radio for Dummies book	21.99
WX for Dummies	Weather for Dummies book	21.99

WILSON (WIL)

FGT-4/BLK	4' black fiberglass CB whip	\$ 29.99
FGT-4/WHI	4' white fiberglass CB whip	29.99
Little Wil	Magnetic mt CB antenna	39.99
Trucker 2000	Black mobile 1/2-24 CB whip	62.99
W-1000 Magnetic	Black mobile CB antenna	76.99
W-1000 Roof Top	Black mobile CB antenna	59.99
W-1000 Trunk Lip	Black mobile CB antenna	66.99

WINEGARD (WIN)

CX-0625	25' RG-6 TV coax w/F connectors	\$ 10.99
CX-0650	50' RG-6 TV coax w/F connectors	15.99
CX-0675	75' RG-6 TV coax w/F connectors	19.99
CX-6100	100' RG-6 TV coax w/F connectors	24.99
PR-7010	22 el 66.5" boom Prostar TV ant	59.99
PR-7032	33 el 103.25" boom Prostar TV ant	89.99
PR-7042	43 el 149.75" boom Prostar TV ant	149.99
TV-2900	Outdoor TV matching transformer	2.99

YAESU (YAE)

FTDX-9000	Contest 200w HF/6m Xcvr	5699.99
FTDX-9000D	Deluxe 200w HF/6m Xcvr	11499.99
FTDX-9000MP	High Power 400w HF/6m Xcvr	12049.99
MD-100A8X	Desk mic w/tone control	139.99
MD-200A8X	Deluxe high fidelity desk mic	399.99
MH-31B8	Extra hand microphone	49.99
SP-9000	Ext dual spkr sys/audio filts; Contest/D	369.99
YH-77STA	Open-air type stereo headphones	59.99
FT-2000	100w HF/6m AC/DC DSP Xcvr	2699.99
FT-2000D	200w HF/6m DSP Xcvr	3499.99
DMU-2000	Data management unit	999.99
FH-2	Remote keyboard	99.99
MD-100A8X	Desk mic w/tone control	139.99
MD-200A8X	Deluxe high fidelity desk mic	399.99
MH-31B8	Extra hand microphone	49.99
MTU-160	u-tuning kit A for 160m	499.99
MTU-80/40	u-tuning kit B for 80/40m	499.99
MTU-30/20	u-tuning kit C for 30/20m	499.99
SP-2000	External speaker w/audio filters	199.99
YF-122C	500Hz Collins CW filter	169.99
YF-122CN	300Hz Collins CW filter	169.99

Yaesu - continued

YH-77STA	Open-air type stereo headphones	59.99
FT-897D	HF/6m/2m/430 port/base Xcvr/TCXO	*799.99
*Price after instant coupon; coupon expires 4/30/07		
(BET) Yae Tune Control	for FT-897 series	44.99
(W4R) Antenna Boss	interface; other mfg mt ant	179.99
(W4R) OPF-CW	500Hz Collins CW filter	99.99
(W4R) OPF-SSB	2.3KHz Collins SSB filter	124.99
FP-30	Internal power supply	229.99
ADMS-4B	Windows prog software w/cable	59.99
ATAS-120	HF/6/2/430 motorized mob ant	299.99
ATBK-100	Antenna base kit; use w/base mt	99.99
ATAS-25	40/20/15/10/6/2/430 7.2" port ant	249.99
CT-39A	Packet cable	11.99
CT-62	CAT interface cable	36.99
EDC-20	Extra DC cable	18.99
FC-30	Antenna tuner; bolts to FT-897	199.99
FC-40	Automatic antenna tuner	279.99
FNB-78	4.5ah NiMH batt (will accept 2)	129.99
CD-24	4-hr charge adapter for FNB-78	129.99
PA-26B	110vac charger for CD-24	89.99
MD-100A8X	Desk mic w/tone control	139.99
MD-200A8X	Deluxe high fidelity desk mic	399.99
MH-36E8J	TTP mic	69.99
MH-59A8J	Remote control TTP mic	79.99
MLS-100	Mobile speaker	49.99
MMB-80	Mobile mounting bracket	39.99
T-9023225	Extra DC cable	26.99
YA-007FG	FG whip w/bpr mt; 80-10m use tuner	169.99
YF-122C	500Hz Collins CW filter	169.99
YF-122CN	300Hz Collins CW filter	169.99
YF-122S	2.3KHz Collins SSB filter	169.99
YH-77STA	Open-air type stereo headphones	59.99
FT-857D	Mini HF/6m/2m/430 Xcvr/DSP	*679.99
*Price after instant coupon; coupon expires 4/30/07		
FREE YSK-857 with FT-857D thru 4/30/07!		
(BET) Yae Tune Control	for FT-857 series	44.99
(W4R) Antenna Boss	interface; other mfg mt ant	179.99
(W4R) OPF-CW	500Hz Collins CW filter	99.99
(W4R) OPF-SSB	2.3KHz Collins SSB filter	124.99
FP-1023	23A switching ps w/fan, 25A surge	169.99
FP-1030A	25A ps, 30A surge w/meters	269.99
ADMS-4B	Windows prog software w/cable	59.99
ATAS-120	HF/6/2/430 motorized mob ant	299.99
ATBK-100	Antenna base kit; use w/base mt	99.99
ATAS-25	40/20/15/10/6/2/430 7.2" port ant	249.99
CT-39A	Packet cable	11.99
CT-58	Band data cable; Yaesu amplifier	34.99
CT-62	CAT interface cable	36.99
EDC-20	Extra DC cable	18.99
FC-30	Antenna tuner	199.99
FC-40	Automatic antenna tuner	279.99
MD-100A8X	Desk mic w/tone control	139.99
MD-200A8X	Deluxe high fidelity desk mic	399.99
MH-36E8J	TTP mic	69.99
MH-59A8J	Remote control TTP mic	79.99
MLS-100	Mobile speaker	49.99
T-9023225	Extra DC cable	26.99
TCXO-9	TCXO unit, 0.5 ppm	109.99
YA-007FG	FG whip w/bpr mt; 80-10m use tuner	169.99
YF-122C	500Hz Collins CW filter	169.99
YF-122CN	300Hz Collins CW filter	169.99
YF-122S	2.3KHz Collins SSB filter	169.99
YH-77STA	Open-air type stereo headphones	59.99
YSK-857	Separation kit	69.99
FT-817ND	5w HF/6/2/430 Xcvr/FNB85/NC72B	*579.99
*Price after instant coupon; coupon expires 4/30/07		
(W4R) DBF-817/ND-DIY	CW & SSB Collins filts	239.99
(W4R) OPF-CW	500Hz Collins CW filter	99.99
(W4R) OPF-SSB	2.3KHz Collins SSB filter	124.99
ADMS-4A	Windows prog software w/cable	59.99
ATAS-25	40/20/15/10/6/2/430 7.2" port ant	249.99

Yaesu - continued

CSC-83	Soft case w/side pocket for FT-817	29.99
CT-39A	Packet cable	11.99
CT-62	CAT interface cable	36.99
EDC-6	Extra DC cord; plug & wire only	8.99
FNB-72	9.6v 1000mah nicad battery	19.99
FNB-85	9.6v 1400mah NiMH battery	69.99
MH-36E8J	TTP mic	69.99
MLS-100	Mobile speaker	49.99
NC-72B	Extra nicad wall charger	24.99
TCXO-9	TCXO unit, 0.5 ppm	109.99
YA-007FG	FG whip w/bpr mt; 80-10m use tuner	169.99
YF-122C	500Hz Collins CW filter	169.99
YF-122CN	300Hz Collins CW filter	169.99
YF-122S	2.3KHz Collins SSB filter	169.99
CT-61	Interface cable; FT-847 to amp	15.99
DSP-2	DSP unit for original FT-857	49.99
DVS-2	Digital voice module; Mk V/Field	239.99
FC-10	External coax fed auto tuner; FT-840	329.99
FC-20	Automatic ant tuner; FT-100/847	229.99
FC-800	External long wire auto tuner	469.99
FH-1	Remote control keypad; Mk V/Field	94.99
FIF-232C	RS-232 interface; FT840/FRG100B	99.99
FM-1	FM unit for FT-920	59.99
FM-747	FM unit; FT-840	69.99
FP-1023	23A switching ps w/fan, 25A surge	169.99
FP-1030A	25A ps, 30A surge w/meters	269.99
FRB-5	Relay board; FTV-1000/original MP	39.99
MH-36D8	TTP mobile mic; FT-847	69.99
MMB-20	Mobile mount; FT-840	29.99
MMB-66	Mobile mounting bkt; FT-847	44.99
MMB-67	Quick release bracket; FT-100D	24.99
SP-8	External speaker w/filters; Mk V/Field	174.99
T-9018320	DC cable; FT-840/847/Field	29.99
T-9021925	Extra DC cord; FT-100D	39.99
TCXO-4	TCXO unit; FT-840/FRG-100B	109.99
TCXO-6	Deluxe TCXO unit; Mk V/Field	189.99
TCXO-7	TCXO unit for FT-920	99.99
XF-117A	6 KHz AM filter; FT-100D	129.99
XF-117CN	300 Hz CW filter; FT-100D	69.99
YA-007FG	FG whip w/bpr mt; 80-10m use tuner	169.99
YA-30	1.8-30 MHz broadband dipole ant	259.99
YF-110CN	250Hz 3rdIF CW filts; FRG/MkV & Field	119.99
YF-110SN	2KHz 3rd IF SSB filts; Mk V/Field	119.99
YF-112A	6 KHz AM filter; FT-840	99.99
YF-112C	500 Hz CW filter; FT-840	99.99
YF-114CN	250Hz 2nd IF CW filts; Mk V/Field	119.99
YF-114SN	2KHz 2nd IF SSB filts; Mk V/Field	119.99
YF-115C	500Hz CW Collins filts; FRG/MkV & Field	129.99
YF-116A	6 KHz AM filter for FT-920	99.99
YF-116C	500 Hz CW filter for FT-920	99.99
YH-77STA	Open-air type stereo headphones	59.99
YSK-100	Separation kit for FT-100D	99.99

Quadra System

VR-120D	1M-1.3G AM/FM/SSB hand/cell bkld	*179.99
*Price after instant coupon; coupon expires 4/30/07		
CA-34	Charger sleeve; NC-82/VR-120D	5.99
CSC-76	Soft case for VR-120D	19.99
EDC-15	DC adapter	39.99
FNB-79	Nicad battery for VR-120D	10.99
NC-82	Charger stand	10.99
PA-30B	AC adapter	8.99
VR-500	1M-1.3G AM/FM/SSB hand/cell bkld	*279.99
*Price after instant coupon; coupon expires 4/30/07		
ADMS-3	Windows programming software	39.99
CSC-72	Soft case for VR-500	19.99
EDC-5B	DC adapter w/noise filter	26.99
EDC-6	DC adapter; plug & wire only	8.99
FNB-59	Nicad battery for VR-500	29.99
NC-60B	Wall charger	16.99

Yaesu - continued

AES Price

VR-5000 1M-2.6G base rcvr AM/FM/SSB/cell bkl	\$569.99
<i>*Price after instant coupon; coupon expires 4/30/07</i>	
DSP-1 DSP unit	119.99
DVS-4 Digital voice recorder	49.99
E-736 DC cable for FT-736R	19.99
FM Unit-100 FM unit for FRG-100B	29.99
FT-7800R 50w 2m/40w 440 FM Xcvr/WX alert	*244.99
<i>*Price after instant coupon; coupon expires 4/30/07</i>	
ADMS-2K Windows programming software	39.99
CT-39A Packet cable	11.99
MLS-100 Mobile speaker	49.99
MMB-60 Quick release mobile mount	39.99
T-9021715 Extra DC cable	12.99
YSK-7800 Remote separation kit	59.99
FT-8800R 50w 2m/35w 440 FM Xcvr	374.99
<i>FREE YSK-8900 with FT-8800R thru 4/30/07!</i>	
ADMS-21 Windows programming software	39.99
CT-39A Packet cable	11.99
MLS-100 Mobile speaker	49.99
MMB-60 Quick release mobile mount	39.99
MMB-62 Remote front panel mounting bkt	44.99
T-9021810 Extra DC cable	12.99
YSK-8900 Remote separation kit	59.99
FT-8900R 50w 10m/6m/2m/35w 440 FM Xcvr	424.99
<i>FREE YSK-8900 with FT-8900R thru 4/30/07!</i>	
ADMS-2H Windows programming software	39.99
CT-39A Packet cable	11.99
MLS-100 Mobile speaker	49.99
MMB-60 Quick release mobile mount	39.99
MMB-62 Remote front panel mounting bkt	44.99
T-9021810 Extra DC cable	12.99
YSK-8900 Remote separation kit	59.99
AD-3 100w 2m/440 duplexer	49.99
ADMS-2E Windows prog soft; FT-2600M/90R	39.99
ADMS-2F Windows prog software; FT-1500M	39.99
ADMS-2G Windows prog soft; FT-7100M	29.99
RA-0242900 Extra mobile bkt; FT-1500M	2.99
YSK-900 Remote separation kit; FT-90R	64.99
YSK-7100 Rem separation kit; FT-7100M	69.99
YSK-8100 Rem separation kit; FT-8100R	69.99
FT-1802M 50w 2m FM Xcvr w/WX	*124.99
<i>*Price after instant coupon; coupon expires 4/30/07</i>	
ADMS-1802 Windows programming software	39.99
MLS-100 Mobile speaker	49.99
FT-2800M 65w 2m FM Xcvr w/WX alert	*139.99
<i>*Price after instant coupon; coupon expires 4/30/07</i>	
ADMS-21 Windows programming software	39.99
MLS-100 Mobile speaker	49.99
S-8002051/MMB-83 Extra mobile bracket	4.99
S-1011436 Extra DC cable	7.99
FP-10123 23A switching ps w/fan, 25A surge	169.99
FP-1030A 25A ps, 30A surge w/meters	269.99
HF-100 WIRES II interface box	149.99
LRI-1 Mobile 13A DC noise filter	29.99
MLS-100 Mobile speaker	49.99
VXR-7000VA/Vertex 50w 2m FM AC/DC rpt	1269.99
VX VPL-1 Repeater programming cables	87.99
Repeaters require service dept set-up; \$45 minimum	
Accs for FT-23/33/73/411/811/470/911	
CSC-24S Soft case; FT-23/33/73 w/FNB-12S	\$.09
CSC-35 Soft case; FT-411/811/911/FNB-17	.09
FBA-17 AA battery holder	19.99
FNB-12S 12v 600mah 5w battery	59.99
FNB-17 7.2v 600mah battery	39.99
CLIP-10 Spring loaded belt clip; FT-50	2.99
CSC-68 Soft case; FT-50/FNB-41/FBA-15	14.99
CSC-V10 Cordura soft case; FT-10/40/50	19.99
FBA-15 4-AA battery holder; FT-50RD	19.99
FBA-21 6-AA battery holder; FT-50RD	39.99
NB-41 9.6v 600mah 5w battery; FT-50RD	59.99

Yaesu - continued

AES Price

FNB-V47 7.2v 1100mah battw/belt clip; FT-50	49.99
LCC-10S Leather case/swivel; 50/FNB41/V47	19.99
NC-60B Wall charger for FT-10/50	16.99
CA-15 Charging stand; NC-60B; FT-10/50	19.99
YHA-54 2m/440 duck antenna	14.99
FT-60R 5w 2m/440 FM HT	189.99
ADMS-1J Windows programming software	39.99
CN-3 BNC to SMA adapter	11.99
CT-27A Cloning cable	14.99
CT-44 2-pin spkr/mic adapter	14.99
EDC-5B DC adapter w/noise filter	26.99
EDC-6 DC cord; plug & wire only	8.99
FBA-25 6 AA cell battery case	20.99
FNB-83 7.2v 1400mah NiMH battery	65.99
MH-34B4B Speaker/mic	38.99
MH-37A4B Earpiece/microphone	40.99
VAC-370 Rapid charger	79.99
VC-25 VOX headset	69.99
VX-150 5w 2m FM HT/16-key TTP	*117.99
<i>*Price after instant coupon; coupon expires 4/30/07</i>	
<i>FREE extra FNB-64 with VX-150 thru 4/30/07!</i>	
ADMS-1F Windows programming software	39.99
CN-3 BNC to SMA adapter	11.99
CT-27A Cloning cable	14.99
CT-44 2-pin spkr/mic adapter	14.99
CT-53 Packet cable	9.99
EDC-5B DC adapter w/noise filter	26.99
EDC-6 DC cord; plug & wire only	8.99
FBA-25 6 AA cell battery case	20.99
FNB-V57 7.2v 1100mah battery	49.99
FNB-64 Extra 7.2v 700mah battery	36.99
LCC-150/TT Leather case	29.99
LCC-150S/TT Leather case w/swivel	36.99
MH-34B4B Speaker/mic	38.99
MH-37A4B Earpiece/microphone	40.99
NC-72B Extra wall charger	19.99
VAC-400B 1-hour desk top rapid charger	69.99
VC-25 VOX headset	69.99
VX-170 5w 2m FM HT/16-key TTP	*119.99
<i>*Price after instant coupon; coupon expires 4/30/07</i>	
VX-177 5w 440 FM HT/16-key TTP	149.99
ADMS-VX170 Windows prog software; VX-170	39.99
ADMS-VX177 Windows prog software; VX-177	39.99
CD-26 Charger cradle	30.99
CMP-460A Waterproof speaker/mic	69.99
CN-3 BNC to SMA adapter	11.99
CT-91 Microphone adapter	12.99
EDC-5B DC adapter w/noise filter	26.99
EDC-6 DC cord; plug & wire only	8.99
FBA-25 6 AA cell battery case	20.99
FNB-83 7.2v 1400mah NiMH battery	65.99
MH-57A4B Speaker/mic	30.99
VAC-370 Rapid charger	79.99
VC-24 VOX headset	79.99
VC-27 Earpiece/microphone	34.99
ADMS-1E Windows prog software; VX-5R	39.99
CSC-71 Soft case for VX-1R	2.99
CSC-73 Soft case for VX-5R	14.99
FBA-20 Battery holder for VX-1R	19.99
Q-3000166 Replacement duck ant for VX-5R	30.99
VX-2R 1.5w 2m/1w 440 submini HT/lith ion	*139.99
<i>*Price after instant coupon; coupon expires 4/30/07</i>	
ADMS-1H Windows programming software	39.99
CN-3 BNC to SMA adapter	11.99
CSC-90 Soft case	19.99
CT-27A Cloning cable	14.99
CT-44 2-pin spkr/mic adapter	14.99
EDC-21 DC adapter	42.99
FNB-82LI Extra 3.7v 1000mah lith ion batt	38.99
MH-34B4B Speaker/mic	38.99
MH-37A4B Earpiece/microphone	40.99

Yaesu - continued

AES Price

VC-25 VOX headset	69.99
VX-6R 5w 2m/440/1.5w 220 FM HT	249.99
ADMS-VX6 Windows programming software	39.99
CD-15A Charger stand (use with NC-72B)	34.99
CMP-460A Waterproof speaker/mic	69.99
CN-3 BNC to SMA adapter	11.99
CSC-91 Soft case	15.99
CT-91 Microphone adapter	12.99
EDC-5B DC adapter w/noise filter	26.99
EDC-6 DC cord; plug & wire only	8.99
FBA-23 2 AA cell battery case	29.99
FNB-80LI Extra 7.4v 1300mah lith ion batt	79.99
MH-57A4B Speaker/mic	30.99
NC-72B Extra wall charger	19.99
SU-1 Altitude/barometric pressure sensor	39.99
VC-24 VOX headset	79.99
VC-27 Earpiece/microphone	34.99
VX-7R Silver 5w 6m/2m/440/300mw 220 FM HT	*314.99
<i>*Price after instant coupon; coupon expires 4/30/07</i>	
VX-7RB Black 5w 6m/2m/440/300mw 220 FM HT	*314.99
<i>*Price after instant coupon; coupon expires 4/30/07</i>	
ADMS-1G Windows programming software	39.99
CD-15A Charger stand (use with NC-72B)	34.99
CMP-460A Waterproof speaker/mic	69.99
CN-3 BNC to SMA adapter	11.99
CSC-88 Soft case	15.99
CT-91 Microphone adapter	12.99
EDC-5B DC adapter w/noise filter	26.99
EDC-6 DC cord; plug & wire only	8.99
FBA-23 2 AA cell battery case	29.99
FNB-80LI Extra 7.4v 1300mah lith ion batt	79.99
MH-57A4B Speaker/mic	30.99
NC-72B Extra wall charger	19.99
Q-3000185 Replacement duck ant	29.99
SU-1 Altitude/barometric pressure sensor	39.99
VC-24 VOX headset	79.99
VC-27 Earpiece/microphone	34.99
ANTENNA ROTORS	
G-450A 10 sq ft antenna rotor/5-wire	\$259.99
G-550 12 sq ft elevation rotor/6-wire	299.99
G-800SA Med/hvy duty 450 degree 17sq ft/5-wire	339.99
G-800DXA Med/hvy duty 17sq ft/presets/5-wire	429.99
G-1000DXA HD 450 degree 23sq ft/presets/6-wire	519.99
G-2800DXA HD 450 degree 34sq ft/presets/6-wire	1139.99
<i>Note: G-2800DXA comes w/40m (131') of rotor cable</i>	
G-5500 11 sq ft azimuth/elevation rotor/2/6-wire	629.99
GA-3000 Tower absorber joint; G-1000/2800	119.99
GC-38 Mast clamp; G-450/800/1000/5500	39.99
GC-04B Mast clamp; G-2800	49.99
GL-33 Mast adjustment plate	18.99
GS-050 50mm thrust bearing; mast 1 1/2"-2"	39.99
GS-065 65mm thrust bearing; mast 1 1/2"-2"	54.99
GS-232B Computer interface; DXA rotors	589.99
G-1000 Interface cable; GS-232A/B - SDX/G5500	34.99
GS-680U Universal self-adjusting mast bearing	109.99
Sep Kit Separation kit for G5500	29.99
See BELDEN for rotor cable	
CONSUMER ELECTRONICS	
VXA-710 Spirit 5w air handheld	\$359.99
FNB-53 Nicad battery pack; Yaesu FRS	.19
CLOSE-OUTS	
ALI DR-135TP Mk II Blk 50w 2m FM/9600 TNC	\$269.99
ALI DR-235T Black 25w 220 FM Xcvr	249.99
ALI DR-435T Mk II Black 35w 440 FM Xcvr	269.99
ALI EBP-34N 4.8v 1200mah nicad battery	69.99
ALI EDC-97 Quick charger; MiMH batt packs	70.99
ALP Delta-4/N 1.3 GHz 4-pos N switch/protector	89.99
ALP DX-40/20 40/20m 40' low profile dipole ant	79.99
ALP Pathfinder 1.8-30+6m dig auto ant tuner	199.99
AOR ARD-9000 Digital SSB interface	269.99



Close-Outs - continued AES Price

AOR AR-3000AB 1-2036MHz dtx w/SB/cell blkd	969.99
AOR LA-350 3-30MHz active loop antenna	279.99
AOR SDU-5500 Spectrum disp unit/PC interf	799.99
AOR SDU-5600 Spectrum disp unit/PC interf	1199.99
ASR RS-35A/220V 220v 25A ps, 35A surge	149.99
BEN BY-3 Iambic keyer paddle, gold plated	299.99
BUS 78-0200 4.5" reflector telescope	249.99
BUS 78-2010 4.5" reflector telescope	129.99
CEL 22082 NexStar 80GT telescope	279.99
CEL 52211 60mm wildlife zoom spot scope/tripod	99.99
CEL 93497 Standard tripod	79.99
DAV 7440 Monitor II weather station	269.99
DAV 7859 External temp/humid Sensor II; 7440	99.99
DIA MG-200 2.4GHz 7db 23.6" N mobile ant	89.99
DIA MX-3240 2m/220/440 triplexer, no cables	79.99
DIA U-200 440/1.2GHz 8.3/11.7db 6" N base	119.99
GAR 010-10468-00 MapSource MetroGuide CD	69.99
GAR cQue-1620 GPS module for Pocket PC's	169.99
GAR GA-26C Low profile remote ant w/cbl/BNC	79.99
GAR Geko-101 Small GPS receiver	79.99
GAR GPS-12XL GPS receiver	149.99
GAR iQue-3600 Handheld PDA/integrated GPS	399.99
GAR StreetPilot 2610 Deluxe GPS	499.99
GRU E-10 Portable AM/FM/SW receiver w/ps	129.99
HEI HM-10-4 Mic with HC-4 element	69.99
ICO AH-2B extra whip only	149.99
ICO BC-119-N11 Nicad/NiMH desk cgr (use adapt)	89.99
ICO BC-119-N21 Nicad/NiMH desk cgr; T81A	99.99
ICO BP-172 4.8v 950mah battery	91.99
ICO BP-173 9.6v 600mah battery	119.99
ICO BP-180 7.2v 600mah battery	89.99
ICO BP-200L 9.6v 760mah NiMH batt; T81A	79.99
ICO IC-M32 Waterproof 5w VHF marine handheld	149.99
ICO IC-M302W02 White waterproof 25w VHF marine	159.99
ICO IC-M402W02 White waterproof 25w VHF marine	139.99
ICO IC-W32A 5w 2m/440 FM HT	249.99
ICO IC-2720H 50w 2m/35w 440 FM/WX alert	*329.99

*Price after mail-in rebate; rebate ends 6/30/07

*Price after instant coupon; coupon expires 6/30/07

Close-Outs - continued AES Price

JRP 317275 X33 synth FM pistal V-Z590U1-Z270 75M	129.99
KAN KAM 98 Single port multi-mode dig controller	349.99
KEN AT-50 External HF auto tuner	319.99
KEN DFK-7 Dlx 22' rem cable kit; 642/742AD	89.99
KEN PB-34 9.6v 600mah 5w batt; TH-22ATH	79.99
KEN PS-52 Heavy duty ps; TS-870S	239.99
KEN SP-31 External speaker; TS-870S	99.99
KEN SP-950 Ext spkr/audio filters; TS-950SDX	149.99
KEN TM-6707A 50w 2m/35w 440 FM Xcvr	279.99
KOS YK-107C 500 Hz CW filter; TS-50S	129.99
KOS QZ/2000 Active noise reduction stereoph	119.99
LAC WS-3610UCH Pro wireless WX station	299.99
LAC WS-90161TWC Sun/moon wireless WX stn	79.99
LAR KG-220-UD-PL 220 3 db on glass ant	79.99
LOS A0014 XXX-4 4WD electric Competition buggy kit	149.99
LOS A0090 XXX-T Sport RTR w/XR21 electric car	149.99
MAG SporTrak Color Handheld color GPS/9MB	199.99
MFJ 498 Dlx CW keyboard/kyr w/disp/keyboard	99.99
MFJ 991 150w automatic antenna tuner	149.99
MFJ 994 600w automatic antenna tuner	269.99
MID GXT-500VPA 22ch 5w QMS/RS HBbatts pair	79.99
MIR KP-1/10M 10m in shack preamp	79.99
MIR KP-2/10M 10m mast mount preamp	79.99
MSQ 2M5-440XP 2m/440 9/12db 5/10el 5/8" bm	149.99
MSQ 15M-4DX 15m 8.5db 4el 33' 8" bm beam	399.99
NOO NODS-5 5x48 night vision scope w/illum	169.99
NOO NOXG-2 3x G2 night vision scope w/illum	699.99
ORE WMR-112A Wireless weather station	119.99
SAN DT-200V AM/FM/WHF TV sound dig port Rcvr	64.99
SAN PR-D2 AM/FM port dark grain "Q" radio	89.99
SGC 55-50 QMS-37 Quik mt sys/SG237, less whip	469.99
SGC 55-69 SG-307 whip only	140.99
SON ICF-SW12 AM/FM/SW travel Rcvr/world clock	79.99
SON ICF-SW40 AM/FM/SW portable receiver	89.99
TRX 2410 Bandit RTR electric buggy w/TQ radio	69.99
TRX 3606 Stampede RTR electric monster truck/ESC	99.99
TRX 3706 Rustler RTR electric stadium truck/ESC	99.99
TRX 3710 Rustler RTR electric stadium truck/TQ Tx	79.99
TRX 3906 E-Maxx RTR electric monster truck	269.99

Close-Outs - continued AES Price

UNI BC-92XLT 200 ch pocket scanner/800	109.99
UNI BCI-25D Digital badge; BC-785D/250D	139.99
UNI BR-330T 2500 ch pocket/trunk/race track	279.99
UNI Mystic 5w VHF marine HH/GPS/DSC	269.99
UNI Polaris 25w VHF marine Xcvr w/hailer	119.99
VAL AB-5 75/40/20/15/10m mobile antenna	89.99
VEC VC-300D 300w digital antenna tuner	129.99
VIB 162 Gold Hand key/Iambic Paddle double	369.99
VIB 163 Gold Hand key/VibroKeyer Paddle double	369.99
VIB 175 Std Hand key/Iambic Paddle double	299.99
VIB 180 Std Hand key/VibroKeyer Paddle double	299.99
WAR OBF-703/718-D1D cwbk Collins filts; 703/718	199.99
WEL WST2 Pyropen Jr. portable butane iron	69.99
YAE DVS-2 Digital voice module; Mk V/Field	239.99
YAE FC-10 External coax fed auto tuner; FT-840	329.99
YAE FC-20 Automatic ant tuner; FT-100/847	229.99
YAE FC-800 External long wire auto tuner	469.99
YAE FH-1 Remote control keypad; Mk V/Field	94.99
YAE FIF-232C RS-232 interface; FRG100B/FT840	99.99
YAE GA-3000 Twr absorber joint; G-1000/2800	119.99
YAE SP-8 External speaker w/filters; Mk V/Field	174.99
YAE TCXO-4 TCXO unit; FRG-100B/FT-840	109.99
YAE TCXO-6 Deluxe TCXO unit; Mk V/Field	189.99
YAE TCXO-7 TCXO unit; FT-920	99.99
YAE YF-117A 6 KHz AM filter; FT-100D	129.99
YAE YF-110CN 250Hz CW filter; FRGMV&Field	119.99
YAE YF-110SN 2KHz SSB filter; Mk V/Field	119.99
YAE YF-112A 6 KHz AM filter; FT-840	99.99
YAE YF-112C 500 Hz CW filter; FT-840	99.99
YAE YF-114CN 250Hz CW filter; Mk V/Field	119.99
YAE YF-114SN 2KHz SSB filter; Mk V/Field	119.99
YAE YF-115C 500Hz CW Collins filtr; FRGMV&Field	129.99
YAE YF-116A 6 KHz AM filter; FT-920	99.99
YAE YF-116C 500 Hz CW filter; FT-920	99.99
YAE YSK-100 Separation kit for FT-100D	99.99

Our
Service Team
with their
State-of-the-art
test equipment
1965



USED GEAR		COMET		BP211 BATTERY		1224 INTERFACE		ICF57600RCV RCVR			
• Fully Service Tested		CFX1541 HF/2M/440 TRIPLEXE	67.99v	BP211N 7.4V 1800MAH LITH.	68.99v	1272MYH TNC/MIC SW	35.99v	TERK			
• 10-day Trial (pay only shipping charges)		CXSN TYPE-N MOUNT	39.99m	CP12L RT ANGLE CIG CABLE	33.99v	1279 SNOCDR INTERFACE	114.99m	HDVI INDOOR ANTENNA	35.99c		
• 30 Day Guarantee		SB81NMO 2M/440 ANTENNA	38.99v	CP17L CIG ADAPTER	19.99m	1279M SNOCDR INTERFACE	115.99mv	MOD41 RF MODULATOR	34.99m		
• Full Trade-in Credit within 90-days on Higher Priced New Equipment		SB14 6M/2M/440 ANTENNA	59.99v	CP18A CIG DC CABLE	27.99c	128 CLOCK	49.99m	TV50 AMPLIFIED TV ANT	59.99v		
Current lists available for viewing at www.aesham.com		COMM OUTFITTERS		CSWH44 SOFTWARE/CABLE	44.99m	1312D AC ADAPTER	13.99c	TIMEWAVE			
DEMO GEAR		EXP1 RADIO PACK	84.99v	HM158L SPEAKER/MIC	38.99m	1701 6-POSITION COAX SWITCH	35.99v	ANCA NOISE CANCELLER	189.99m		
• Fully Service Tested New Demonstrator or Display Equipment		CSS		HM46 SPEAKER/ MIC	39.99c	201 DIP METER	114.99f	PK96/100K TNC	199.99c		
• Repacked in Original Cartons		PKTERFORWIN WIN SOFTWARE	89.99v	HM46L SPEAKER/MIC	39.99m	206 AMP CURRENT PROBE	69.99m	WEFAX256 PROGRAM	49.99v		
• Manufacturer's Warranty		CUSHCRAFT		HM92A HAND MIC	49.99m	249B SWR ANALYZER	197.99c	UNIDEN			
ALAN BROADBAND		AZ706S 2M/70CM BEAM	79.99m	HS10SA HEADSET	34.99m	4114 POWERPACK	59.99m	BC17 SCANNER	119.99c		
ZAPCHECKER180	79.99m	A743 40/30 KIT	159.99m	HS85 HEADSET/VOX	79.99mv	4125 25 AMP PWR SUPPLY	98.99c	BC147XLT SCANNER	79.99c		
ALINCO		PD4 2M POWER DIVIDER	76.99c	ICP7A 2M/440 1.5W HT	214.99c	4151 MORSE KEYBOARD	89.99v	BC244CLT SCANNER	79.99m		
DJC77 2M/70CM HT	149.99v	DAVIS		IC77H 6W 2M/440 FM HT	179.99cv	452 CW KYBD UNIT	119.99mv	BC245XLT SCANNER	139.99c		
DIV5TH 2M/70CM HT	189.99mv	7400 INDOOR WX STATION	119.99v	ICU82 UHF HT	114.99m	490 PADDLE/KEYER	179.99mv	BC246T SCANNER	199.99v		
DJX2T RCVR	139.99m	7654 SOLAR RPTR/VANTAGE	99.99m	ICV8 OWNERS MANUAL	4.99v	498X KEYER	134.99m	BC278CLT SCANNER	99.99m		
DJX7T RCVR	149.99m	7852 RAIN COLLECTOR	59.99c	ICV8 2M HT	107.99v	5022X HT TO PK232 CABLE	12.99m	BC72XLT SCANNER	89.99m		
DI496T 440 HT	134.99m	7862 WXLINK INTRFC/SOFT	99.99mv	ICV8000 2M MOBILE	179.99f	5063 TNC CABLE ICO	17.99c	BC898T SCANNER	189.99m		
DR135TMKII 2M XCVR	152.99c	DCI		ICW32A 5W 2M/440 FM HT	224.99m	5084 TNC-8 PIN CABL	13.99c	BC92XLT SCANNER	99.99m		
DX777 HF XCVR	629.99f	44510C UHF FILTER	107.99v	IC7000 XCVR	1,349.99m	5086YH KAM HF KEN 8P	12.99v	PRO510XL CB XCVR	34.99m		
EBP35N BATT	69.99c	DIAMOND		IC703PLUS ORP XCVR	629.99c	5383Y YAE INTERFACE CBL	35.99v	SC150B SCANNER	89.99c		
EBP36N BATT	59.99v	D220 DISCONE	89.99c	IC746PRO XCVR	1,574.99m	5397MY MIC CABLE	13.99m	SC180B SCANNER	109.99m		
EDC88 CHARGER	54.99m	F23A 2M 15' BASE ANT	107.99v	LC128 CASE	34.99c	616 SPCH INT ENHANCER	159.99f	VALOR			
EJ40U DIG BRD-ORIG 135	69.99v	K412CNMO MOUNT	54.99m	LC137 CASE	34.99c	633 NIIM/NICD CHGR	26.99c	VAA0028BN 1/4W BNC MAG ANT	22.99c		
EME13 HEADSET	54.99m	K601NMO NMO MOUNT	59.99m	MB17A QWK RLS BRACKET	44.99c	6413 CHARGER	29.99m	VANCO			
EMS49 SPKR MIC	29.99c	KX2000D TRIPLEXER	69.99m	MB62 BRACKET	22.99m	641K CHARGER	29.99cv	370052 DIGITAL MULTIMETER	17.99c		
EMS51 HEADSET	34.99m	SG7500NMO 2M/70CM ANT	69.99m	MB85 BRACKET	22.99m	802X FIELD STR MTR	53.99c	VECRONICS			
ERW4 PC CABLE/ERW4C	39.99m	SG7900ANMO 2M/70 NMO ANT	99.99v	OPC254L RT ANGLE DC CBL	12.99v	868 HF PEP SWR/WATTMETER	125.99v	LP30 LOW PASS FILTER	62.99v		
ESC18 CASE	9.99m	SPMINMO MAG MT	39.99v	OPC598 CABLE/AT180	65.99v	921 2M/220 ANT TUNER	69.99f	Q3000LP TUNER	134.99c		
ALPHA DELTA		SPM35 MAG MT	34.99m	RSR75 SOFTWARE/R75	69.99m	924 440 ANT TUNER	69.99f	VIBROPLEX			
DELTA 2 2 POS COAX SWITCH	44.99v	DYNAMITE		R1500-05 RCVR W/REMOTE	539.99v	941E TUNER	107.99c	123 PADDLE/GOLD	249.99m		
PATHFINDER AUTO ANT TUNER	179.99v	1145 BATTERY PACK	4.99m	R20(O6) RCVR	459.99m	993B 300W AUTO TUNER	224.99c	WELLER			
PATHMINDER COAX SWITCH	99.99m	EASY-UP		R5(O6) RCVR	179.99mv	MIDLAND		WESD51 SOLDER STATION	134.99m		
AMECO		EZ2924S CHIMNEY MOUNT	20.99c	R75 SWL RCVR	499.99m	GXT640VP4 GMRS RADIO	79.99m	WILSON			
HP300T HIGH PASS FILTER	8.99v	ESP		SM6 MICROPHONE	79.99m	74200 WX RADIO	39.99m	FGT3/BLK 3' CB WHIP	23.99c		
PT3 PREAMP	124.99m	ESP1 MIC AUDIO PROCESSOR	199.99m	KANTRONICS		74250C WX RCVR	39.99m	TRUNKER 2000 MOBILE ANT	49.99m		
AMERITRON		GAP		KAM98 TNC	299.99mv	75510 FRS RADIO	24.99c	WART			
ALL500M MOBILE AMP	674.99m	DXVIII CHALLENGER ANT	269.99m	KENWOOD		MIRAGE		ANTBOSSII INTERFACE	134.99mv		
ALL500RC REMOTE	44.99m	GARMIN		HMC3 VOX/HOST	44.99m	B215G 150W 2M	239.99m	OBP/STL MIC COMPRESSOR	44.99m		
PNP70 KNWD CABLE	14.99c	ETREXVISTAC GPS	199.99m	KSC24 RAPID CHARGER	44.99m	C211G 220 AMP/PREAMP	299.99v	OPF-SB COLLINS FILTER	112.99v		
PNP8MK TS480 CABLE	14.99c	GPS12XL GPS	134.99m	MC580M MIC	69.99v	MP3 420-450 SWR METER	169.99m	WSYI			
ANTENEX		GPS72 GPS	119.99m	MJ88 MOD/8PIN ADAPTER	29.99c	M SQUARED		GW05 CODE TAPES	26.99m		
LBM89034 MIRROR MOUNT	8.99v	GT10114100 CABLE	34.99m	PB33 BATTERY	79.99v	2M5440XP DUAL BAND YAGI	134.99c	YASU			
TRAT1420/WHITE/NEW	49.99m	GROTHE		PB39 9.6V 600MAH BATT	46.99v	NCS		ADMSX170 PROG SOFT/CBL	34.99c		
ADR		VS4 P/A SETUP	119.99m	PG5A PACKET CABLE	12.99m	LO28PIY CABLE	21.99m	ADMSH2 PROG SOFTWARE	34.99m		
AR3000A RCVR	699.99m	GRUNDIG		PS52 HD PS; TS870S	215.99f	OCN3240 MULTISWITCHER	269.99v	ADMS2G PROG SOFTWARE	26.99c		
AR3000A RCVR/NO ANT	649.99m	E100 SWL RCVR	114.99m	SMC34 SPKR/MIC/VOL/FUNC	28.99v	DREGON SCIENTIFIC		ATAS25 40-430 ANTENNA	224.99c		
AR8200B RCVR	349.99c	E100 SWL RCVR	89.99m	THF6A 5W 2M/220/440 HT/L	296.99v	WMR112A WIRELESS	109.99v	CSCV10 CASE	17.99v		
LA380 LOOP ANTENNA	339.99m	E5 RCVR	134.99m	THK2AT 5W 2M HT	124.99c	WR196T WEATHER RADIO	29.99m	FBA23 BATTERY CASE	26.99c		
SDU5500 SPECTRUM SCOPE	719.99mv	G2000A RCVR	49.99m	TMG707A 50W 2M/35W 440	F251.99cv	PALOMAR		FC20 AUTO ANT TUNER	209.99v		
SDU5600 SPECTRUM SCOPE	1,079.99m	V5505PE SWL RCVR	69.99f	UBC4 DESK CHGR/UPB1	4.99v	SMARTBRIDGE SOFTWARE	4.99v	FNBA1 BATTERY; FT50R	52.99cv		
TDF370 DSP UNIT	199.99m	HEIL		LACROSSE		AT4K TUNER	799.99m	FN80LI BATTERY	69.99m		
ARRL		AD1 KEN PROSECT ADPT	18.99c	WS3610CH WX CENTER/WOOD199.99m		POLYPHASER		FRG100 1-30 MHZ RCVR	469.99v		
242 OPERATING MANUAL CD	29.99v	HC15 HEN CLASSIC MIC	199.99m	WS7038UF WIRELESS RAIN	49.99mv	IS50NKC2 SURGE PROTECT	55.99v	FTV1000 TRANSVERTER	799.99f		
9132 OPERATING BOOK	19.99v	HMPRO MIC	69.99m	WS8015N THERMOMETER	129.99m	PLD0120US20A SURGE PROT	179.99m	FT897D XCVR	779.99m		
ASTRON		HM10DUAL MIC	114.99m	LARSEN		RCR		GC038 MAST CLAMP	35.99c		
RS10A 7.5A POWER SUPPLY	62.99c	HQP NOISE CANX PHONES	89.99cv	BASE MTG KIT; W/UHF MT &	49.99v	ANT1020 INDOOR TV ANT	17.99c	GI1000XA ROTOR	469.99m		
RS7A 7 AMP POWER SUPPLY	53.99cv	PROSEPTPLUS HEADSET	194.99m	KG144UDPL 2M GLASS MT	69.99m	RP3710 AM/FM CLOCK RADIO	17.99m	HR1100 WIRES UNIT	134.99m		
BUSHNELL		B1 TABLE BASE MIC STAND	22.99v	NM0150C 2M 30B 5/8 ANTENN22.99v		SEC1223 POWER SUPPLY	89.99m	MH30A2B SPKR/MIC	19.99m		
780040 90MM REFRACTOR	T299.99m	TRAVELER18 HEADSET	79.99m	NM0150TL 2M ANT/TRNK MT	49.99v	SANGEAN		MH30C2B SPKR MIC	19.99m		
780103 ERECTING PRISM	39.99m	HUSTLER		NM02/70C 10M ANT ONLY; NO	58.99v	ATTS05 RCVR	115.99c	MH34B4B SPKR/MIC	34.99v		
COBRA		B8GT144 2M TRUNK MT	44.99m	POK ROOF MT/UHF-F	27.99v	AT9809 SWL RCVR	224.99m	MH37A4B EAP/PIECE/MIC	34.99m		
HHROADTRIP HH CB/MAG ANT	69.99mv	G7144 2M ANTENNA	149.99m	LOG		SSC		NC55B CHARGER	9.99v		
PK3000-2 GMRS/FRS PAIR	39.99v	G71504 2M ANTENNA	99.99m	ALIC1 10' INTERFACE CBL	17.99c	5219 SPEAKER	39.99m	NC82 CHGR STAND	9.99c		
20XTR CB XCVR	59.99m	MX270 ANT	49.99m	AT1000 1000W AUTOTUNER	495.99f	5417 SG-231 SMARTUNER	399.99v	PA30B AC ADAPTER	6.99c		
25LTD CLASSIC CB XCVR	79.99m	SCB-S SUPER CB ANT	24.99m	ICOMIC2 8 INTERFACE CABLE	7.99c	SHAKESPEARE		SU1 ALT/BAROMETER SENSOR	35.99v		
		CHGB/BLK CB ANTENNA	24.99m	LIGHTWAVE		495 MARINE ANTENNA MOUNT	.99v	VC27 EAP/PIECE/MIC	31.99c		
		CD45H ROTOR	349.99mv	LWHT LED HEADBAND LIGHT	24.99v	SMILEY		VR120 RCVR	129.99c		
		ICOM		LW3000 LED FLASHLIGHT	34.99v	SSII 220 SUPER STICK	17.99v	VR120D RCVR	179.99c		
		A056 CHARGE ADAPTER	12.99v	MHP180 BATTERY	44.99m	TSQV700M SUPERSTICK	17.99m	VR500 HH RCVR	269.99c		
		BC119(31) NICAD DESK CHGR	69.99c	MHC888 CHARGER	53.99v	270A 2M/220/440 TELES WHIP	17.99v	VX150 2M HT	109.99mv		
		BC119N21 CHARGER	79.99m	MHC803 ADAPTER/MHC888	6.99m	SONY		VX170 2M HT	124.99c		
		BC127A CHARGER	1.99m	NFJ		ICFSW07 SWL RCVR	359.99mv	VX78R 2/6/70CM HT	299.99m		
		BC144(01) CHARGER	34.99mv	1020C ACTIVE SWL ANT	71.99v	ICFSW30 SWL RCVR	69.99c	YA007FG ANTENNA	129.99m		
		BP157 BATTERY	59.99c	1026 DLX SWL CANX UNIT	149.99m	ICFSW35 SWL RCVR	79.99m	YF115S02 SSB FILTER	149.99m		
		BP173 BATTERY	89.99m	1040B RCVR PRESELECTOR	89.99v	ICFSW40 SWL RCVR	79.99m	Inventory as of 3/7/07			
		BP198 BATTERY	49.99m	118 24/12 CABLE	22.99c						
		BP211 BATTERY	59.99m	1214PC INTERFACE, IBM	124.99mv						

Used / Demo

Ham Radios

Ham Radio Accessories

Antennas

Antenna Accessories

Publications

Other Radios

Weather & GPS

Audio / Video & Tools

Great Performance, Great Fun, Great Value!

DJ-V17T 2M HT DJ-V47T 440 MHz HT

Great audio and high grade water-resistant design!

Full power HTs with large 40mm internal speaker, rugged polycarbonate body compatible to IPX7, 500mW max audio-output, two-touch repeater access, over 200 memories, ergonomic design, ultra-flexible antenna with SMA connector, 39 CTCSS settings, split function, two-level attenuator, backlit alphanumeric display and special battery-drain function to help avoid battery memory-effect. Ni-MH standard; also uses optional Lithium-ion and NiMH battery packs or AA dry cell case. Perfect for outdoor activities.

**Rugged design
resists moisture,
dirt and dust!**



DJ-C7T 2m+440 "Pocket" HT

Meet the "new generation" mini-HT! Internal speaker with great audio, 200 memories, VFO, Memory & Scan modes, CTCSS encode+decode, AM airband RX, wideband FM broadcast, 300mw output, SMA antenna port, Lithium ion battery, cloning feature, split function and more! **Extremely versatile dual-band HT.**



DR-635T 2M/440MHz Mobile/Base Transceiver

Full Duplex operation! Cross-band repeat, remote mountable control head, newly designed RF circuitry for increased resistance to interference, plus automatic temperature protection circuit. Alphanumeric changeable color display, 200 memories, H/M/L output, ignition key on/off, theft alarm, extended receive, backlit DTMF mic and more! Optional TNC or digital voice module and remote mount kit available.



DJ-296T (222 MHz), DJ-496T (440 MHz) HT

Backlit keys, alpha display, autodial, 40 memories, CTCSS and DCS encode+decode, 13.8 VDC input, and more! High-power battery is standard. **Extra handy!**



DJ-S45T 440 MHz "Micro" HT

Tiny, but tough. Rugged polycarbonate design resists impacts, dust & moisture. Features New Quick Repeater Access Mode, 100 memories; any mix of simplex or repeater channels, CTCSS encode and decode (separately programmable). Computer programmable with optional cable, free software at www.alinco.com.



DJ-V5TH, 2m/440 HT*

Great 2m/440 TX & RX, extended RX range from 76 ~ 999 MHz, wide band FM, alpha display, 200 memories, CTCSS & DCS encode+decode, 5 watts output, compact size, 4 scan modes, split-band ops, auto-dialer, 13.8 VDC direct input. **Excellent performer!**



DR-135T/TP MKIII (2m), DR-435T MKIII (440 MHz), DR-235T MKIII (222 MHz) Mobile/Base

DR-135 includes AM Airband RX. All models have 100 memories, ignition key on/off, theft alarm, large 7 character alpha display, optional internal TNC can be used for packet or APRS™, 9600 packet mode, front data/GPS input, rear DSUB9 connector, H/M/L power out, autodialer, CTCSS and DCS encode+decode, backlit mic, **Extra rugged!** Accepts optional digital voice communications board.



DJ-596T MKII 2m+440 HT

100 memories, alpha channel labels, NiMH battery, CTCSS and DCS encode+decode, WFM+NFM, theft alarm, 6 ~ 16 VDC input, illuminated keys and display, autodialer, full coverage of both bands, Expanded receive; optional digital voice communications board and more! **Extend your abilities!**



DM-330MVT Communications Grade Switching Power Supply

Alinco's Experts have reinvented the power supply! Extremely quiet with a patented noise shift circuit, but we'll be surprised if you ever need to use it. It's small, lightweight and powerful! 30A continuous, 32A peak output, but weighs less than 5 lbs. Variable output from 5 ~ 15 VDC, memory output setting, lighted V/A meter, front panel cigar (10A) and quick-connect (5A) terminals, rear panel high-current connections. Ripple less than 15 mV p-p. **Extra versatile, use for travel, station or test bench.**



DM-340MVT IC Regulated Power Supply

30A nominal, 35A peak output. Variable output 0 ~ 15 VDC, convenient front-panel connections includes high current terminals, cigar lighter (10A) and quick-connect (5A). Built-in circuit protection, convenient front-panel fuse.



DX-70TH (100w) HF+6m Mobile/Base/Portable

160~6m Amateur band TX in all modes, Extra coverage RX from 150 KHz~30 MHz and 50~54 MHz. Removable face, 100 memories, 2 VFOs, speech compressor, SSB, CW and AM narrow filters, fullbreak-in, multi-function control and MUCH more!

Optional accessories include EDX-2 wire antenna tuner & DM-330MVT power supply.



DX-77T HF Base/Portable

Excellence at a great price! 160 ~ 10 meter Amateur band TX all modes; 500 KHz ~ 30 MHz general coverage RX. Clean, clear audio, low noise floor from DDS, 100 memories, easy to operate.

Speech compressor, CTCSS encode for 10m FM operation, CW filter.



www.ALINCO.com

Distributed in North America by Ham Distributors, 1775 North Loop 336 East, Ste. 8, Conroe, Texas 77381 • Phone: 936-648-1407 • Fax: 936-649-1303 • email: USRep@HamDistributors.com

Products intended for properly licensed operators. Permits required for MARS use, CAP use subject to equipment approval. Specifications subject to change without notice or obligation.

Performance specifications only apply to amateur bands. *Cellular blocked in USA. Unblocked versions available to qualified users, documentation required.

NOTICE: Effective 5/1/2004, ALL warranty claims and requests for repair/technical assistance for Alinco products should be sent to Ham Distributors regardless of contact information found on the warranty certificate packed with the product.

Great Features, Great Fun, Great Value!

DJ-X7T Wide Range Pocket Size Communications Receiver
100KHz to 1.3GHz* Triple conversion AM/NFM; double conversion WFM, plus FM, SW, and TV Super small "credit card" size (as thin as 14.5 mm, as light as 103g) delivers AMAZING audio quality! Easy to read illuminated LCD, **1,000 memory channels**, five operating modes, three different antenna modes, easy to program with free downloadable software (optional cable required), cable-clone, and a long-lasting Lithium ion battery! Standard adapter charges the Li-Ion battery AND operates with AC power, even at the same time, so you can listen while charging.

DJ-X30T Wide Range Communications Receiver
captures shortwave signals and more
100 KHz to 1.3 GHz* Triple conversion AM/NFM; double conversion WFM, optional EDS-12 cable can be used for remote-control and AUX capability, **1,000 memory channels**, easy to program memory banks, five scan modes, memory lock-out function, **selectable keyboard system** enables everyone from beginner to experienced operators to enjoy advanced features, use with or without removable keypad, 7.1oz compact design, five operating modes, internal AA battery, three different antenna modes. **Download free control software from www.alinco.com**

EDX-2 Automatic Wire Antenna Tuner
Helps users get on the air fast! Ground it, connect a wire and plug it into your rig. Tunes random length wires from 9 ~ 80 feet. Covers 160 ~ 10 meters. (minimum 40 feet of wire needed for use on 160m) Compatible with DX-70 and DX-77 transceivers. Made for indoor/outdoor mounting, use at home, mobile or in the field. Outputs directly to a wire or whip antenna only (no coax output).

DJ-X3TD Multimode Wide Range Communications Receiver
Exceptional and unique! Small but powerful. Receives 100 KHz ~ 1.3 GHz*, AM, NFM, WFM. **700 memory channels**, dry cell battery pack, four scan modes, stereo FM reception.** **Download free control software from www.alinco.com**

DJ-X2000T Multimode Wide Range "Intelligent" Receiver
Monitoring Excitement is found in the "Intelligent Receiver" from 100 KHz ~ 2150 MHz* with **2000 memories**, alphanumeric labeling, receives AM, WFM, NFM, LSB, USB, CW and FM stereo.** On-line "help" feature, 20 scan programs, computer programmable (download free software from Alinco website), Channel Scope™ display, Transweeper™, RF frequency counter, digital sound recorder, CTCSS decode, 2 level attenuator, field strength meter, *instant "flash tune" and many Extras!*

www.ALINCO.com

Distributed in North America by Ham Distributors, 1775 North Loop 336 East, Ste. 8, Conroe, Texas 77301 • Phone: 936-549-1497 • Fax: 936-549-1703 • Email: USRep@HamDistributors.com
*Cellular blocked in USA. Unlocked versions available to qualified users, documentation required. **Optional stereo headphones required. Japan locations subject to change without notice or obligation.

Accurate Measurements NO EXCUSES.

Professionally Engineered Cross Needle Meters

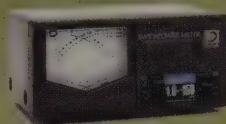
Forward power, reflected power and VSWR are displayed simultaneously! No calibration required! Daiwa high quality instruments make the tedious measuring of SWR and Power during antenna tests, transmitter matching and tuning a very easy task.



Professional Series

Accurate and dependable featuring a large, easy-to-read lighted meter. 13.8VDC jack on rear panel. 6" x 4" x 4" (approx.)
CN-801HP
PEP Reading SWR/Power Meter
Frequency Range: 1.8-200MHz
Forward Power Ranges: 20/200/2000W
CN-801V
Frequency Range: 140-525MHz
Forward Power Ranges: 20/200W
CN-801S
Frequency Range: 900-2500MHz
Forward Power Ranges: 2/20W

NEW



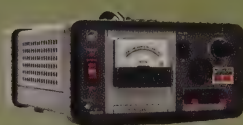
Economy Series

Accurate and dependable bench meters at an economy price.
Lighted, 13.8VDC jack on rear panel.
6" x 3" x 4" (approx.)
CN-101
Frequency Range: 1.8-150MHz
Forward Power Ranges: 15/150/1500W
CN-103M
Frequency Ranges: 140-525MHz
Forward Power Ranges: 20/200W
CN-103N (N-Type Conns)



NEW! POWER SUPPLY

SS-330W
Convenient, lightweight 30 amp switching supply.
30 amps continuous
Dual meters
Adjustable voltage (5-15V)
Built-in fan
Weighs less than 5 lbs.
Carrying handle



SS-505
Lightweight switching power supply
50 Amp Continuous, 55 AMP peak
adjustable voltage, 5-15V
Can be used for DC motors requiring peak start-up voltage
Dual-use V/A meter
Built-in fan
Weight: 8lbs 6 oz



Coax Switches

Patented design and excellent RF characteristics. Automatic grounding of unused circuits with heavy-duty die cast cavity construction.
CS-201
2-Position 600MHz Switch
Max. Power: 25kW PEP/1kW CW
Conns: SO-239
CS-201GII
2-Position 2GHz Switch
Max. Power: 15kW CW
Conns: Gold plated N-Type

NEW



(714) 630-4541 • (800) 962-2611
(714) 630-7024 fax
www.natcommgroup.com

ALINCO

AMATEUR RADIO'S VALUE LEADER™
HF RADIOS



DX-77T HF Transceiver – Covers 160-10M with 500 kHz-30 MHz receive in SSB/CW/AM/FM modes. 100W (AM 40W); High/low power settings; 100 multi-function memories; Two VFOs; Direct digital synthesis; Easy split operation mode; Multi-function control; CW narrow filters; Noise blanker; 6-50 WPM electric keyer; Full, semi or auto break-in CW; All mode squelch; Quick offset; Two scan modes; RTT; Selectable AGC; RF gain control (RX); Dial lock; Auto antenna tuner interface. Dim: 3.6" h x 9.5" w x 9" d; 8.3 lbs. **\$699.99**

Available Accessories

DM330MVT 30A switching power supply with meter, DM340MVT 30A power supply w/meters & 35A surge, ED55 5' mic ext. cable, EDX2 160-10M auto wire tuner, EMS14 Desk top microphone, PC25 DC cable



DX-70TH Compact HF Transceiver – Covers 160 to 6 meters with 150 kHz to 30 and 50 to 54 MHz receive in SSB, CW, AM, FM modes. 100W (AM 40W); Detachable face; 100 multi-function memories; Two VFOs; Easy split operation; Quick offset; Multi-function control; Narrow filter; Noise blanker; Speech processor; CTCSS for 10M & 6M repeaters; Full, semi or auto break-in CW; All mode squelch; Two scan modes; Separate HF and 6M antenna connections; RTT; TXIT; Selectable AGC; Dial lock; Automatic antenna tuner interface. Dim: 2.3" h x 7" w x 9" d; 8.3 lbs. **\$749.99**

Available Accessories

DM330MVT 30A switching power supply with meter, DM340MVT 30A power supply w/meters & 35A surge, EBC8 Front control head bracket, EBC9 Extra mobile bracket, ED55 5' mic extension cable, ED56 15' remote cable, EDX2 160-10M auto wire tuner, EMS14 Desk mic, PC25 DC cable

SINGLE BAND MOBILES



DR-135TMKIII 2M Mobile Transceiver – Covers 144-148 MHz transmit with 118-135.995 MHz (AM aircraft) & 136-173.995 MHz receive. Power levels: 50/10/5W; Wide/Narrow FM; 100 alphanumeric memories; Large alphanumeric LCD display; Dimmer; TXCO with ± 2.5 ppm stability; CTCSS encode/decode/DCS, Four European tone bursts; Backlit DTMF microphone; Ten autodial memories; Multiple scanning modes; Front panel GPS input for APRS; Rear PC connection; Ignition key On/Off feature; Theft deterrent system alarm; Timeout timer; Mobile bracket with hardware, DC cord, alarm cable; Optional TNC; 13.8V DC @ 11A. Dim: 5.58" w x 1.57" h x 6.83" d; 2.3 lbs. **\$169.99**

DR-135TPMKIII – Same as 135TMKIII with addition of the TNC for 1200/9600bps packet and APRS operation. **\$269.99**

DR-235TMKIII – Covers 222-224.995 MHz TX & 216-279.995 MHz RX; 25W/10/5W out. **\$249.99**

DR-435TMKIII – Covers 430-450 MHz TX & 350-511.995 MHz RX; 35/10/5W output. **\$269.99**

Available Accessories:

EDC37 DC cable, EDC43 Cigarette lighter cable, EJ41U 1200/9600 TNC (TMKIII's only), EJ47U Digital board, ERW4 PC cable, ERW7 USB PC cable, HK130 Hardware kit, MB130 Mounting bracket, PC15B DC cable, SW620 Windows programming software



DR-M06TH 6M FM Transceiver – Covers 50-54 MHz FM. Selectable 20/1W output; 100 memories & CALL channel; 50 tone CTCSS encoder; Programmable repeater offset for each memory channel; Time-out timer; DTMF hand microphone; 13.8VDC @ 3A. Dim: 5.5" w x 1.5" h x 4.5" d; 1.6 lbs. **\$259.99**

Available Accessories:

HK130 Hardware kit, MB130 Mnt. bracket, PC15B DC cable

ALINCO

DUAL BAND MOBILES



DR-635T Twin band Mobile Transceiver – Transmits coverage: 144-147.995 and 430-449.995 MHz. Receive coverage: 108-173.995 and 335-480 MHz. Includes VHF AM air band and FM broadcast (87.5-108 MHz), 200 alpha memories. Power: (VHF) 50/20/5W and (UHF) 35/20/5W. Dual band receive capability (V/V, U/U, V/U and U/V) with cross-band repeat. Large, three color LCD shows status icon and alphanumeric tags. CTCSS & DCS encode/decode + 4 different tone bursts. Includes auto power off, time out timer, tone burst, scan lock-out, dimmer, VFO auto program, theft alarm, narrow FM, supply voltage display and remotable head. Rear fan for cool operation during transmit. The front panel is remotable via the optional EDS-9 separation kit. Advanced Digital Mode (10F3) with speech compression is provided via the optional EJ47U board. The supplied DTMF hand microphone allows setting parameters an direct frequency entry. Includes DC cable, mobile mounting bracket with hardware, anti-theft (ACC on/off) function cable and anti-theft sticker. **\$369.99**

DR-620T Twin band Mobile Transceiver – Looks the same, and has the same coverage and features as the newer DR-635T above. Does not have cross-band repeat, three color display and power levels are 50/10/5W (VHF) and 35/10/5W (UHF) ... **\$339.99**

Available Accessories for DR635T & DR-620T:

EDS9 Separation kit, EJ47U Digital board, EJ50U TNC unit, ERW4 PC cable, ERW7 USB PC cable, HK130 Hardware kit, MB130 Mounting bracket, PC15B DC cable, SW620 Windows prog. software

ALINCO

Power Supplies



DM-330MVT Switching Power Supply (left) Small, lightweight but provides 30A cont., 32A peak with variable voltage (5-15 VDC). Lighted V/A meter. Rear panel high current terminals and front panel cigar and quick disconnect terminals. Dim: 6.8" w x 2.6" h x 6.5" d; 4.4 lbs. **\$179.99**

DM-340MVT Conventional Power Supply (right) – Provides 30A continuous, 35A maximum at 50% duty cycle with variable voltage (0-25 VDC). Forced-air cooled; Separate Volt and Amp meters; Large 16mm main terminals plus 2 pairs of auxiliary snap-in terminals, cigar socket and fuse holder on the front panel. Dim: 9.25" w x 6.02" h x 9.06" d; 20.7 lbs. **\$199.99**

MFJ LOW POWER TRANSCEIVERS



SINGLE BAND CW

Easy operation, set up in seconds to enjoy CW DXing or rag chewing wherever your go. Hot superhet receiver with super-quiet PET post amp stage in the IF filter for great sensitivity. Excellent selectivity from the tight CW bandwidth crystal ladder filter that fights QRM and noise. Smooth and stable VFO with reduction drive and RTT. Full SW power output. Semi-QSK operation with adjustable hold T/R switching or set for full QSK. Built-in 3 inch. speaker. Low power drain, only 50mA on RX and 1.2A peak on TX. Dim: 2.5" h x 6.5" w x 6" d; 2 lbs. Four different models:

9015 – 15M, 5W ... **\$189.99** **9030** – 30M, 5W ... **\$189.99**
9020 – 20M, 5W ... **\$189.99** **9040** – 40M, 5W ... **\$189.99**

SINGLE BAND SSB

Easy operation, reduction drive analog VFO allows tuning the band for signals quickly, then zeroing in smoothly. Features Constant Current™ syllabic speech processing for an added 4-6dB advantage to cut through conditions. Low noise preamp and active double balanced mixer front end with a sharp 2.3 kHz SSB crystal ladder filter. Draws only 3Amps from 12V supply or battery. TVI protection with a built-in lowpass filter; Real S-meter; Hand Microphone; Amplifier key jack. Dim: 2.5" h x 6.5" w x 6" d; 2 lbs. Six different models:

9402X 2M, 7W ... **\$289.99** **9420X** 20M, 20W ... **\$249.99**
9406X 6M, 10W ... **\$289.99** **9440X** 40M, 12W ... **\$249.99**
9410X 10M, 20W ... **\$259.99** **9475X** 75M, 12W ... **\$249.99**

See the Price Guide under MFJ for available accessories for these models

**VHF SINGLE BAND
HANDHELD**

DJ-V17T 2 Meter HT Alinco combines rugged polycarbonate materials, an ergonomic design and leading edge technology in an attractive, compact 5W VHF HT that is submersible to 3ft. for 30 minutes! The DJ-V17T has a large 40mm internal speaker so its audio is clean and crisp. The speaker design provides 500mW max audio-output for high quality audio. TX: 144-148 MHz and RX: 130-173.995 MHz with 5, 10, 12.5, 15, 20, 25 and 30 kHz tuning steps. Features: 200 memories; Back-lit alphanumeric display; Direct keypad frequency entry; Scanning; 39 CTCSS tone squelch; 104 DCS digital code squelch; 4 tone bursts; 9 DTMF autodial memories; Time-out timer. Comes with AC charger adapter, Ni-MH battery, flexible SMA antenna, belt clip and wrist strap.

Dim: 2.28" w x 3.78" h x 0.57" d; 3.6 oz. **\$129.99**

Available Accessories:

EBP63 7.4V 1100mAh Li-Ion battery, EBP64 7.4V 1600mAh Li-Ion battery, EBP65 7.2V 700mAh NiMH battery, EBP66 7.2V 2000mAh NiMH battery, EDC144 Rapid charger, EDH34 Dry cell case, EDS10 Mic/speaker cable, EDS11 Clone cable, EMS62 Speaker/mic, ERW4 PC cable, ERW7 USB PC cable, ESC41 Soft case



DJ-196T



DJ-596T MK II

**UHF SINGLE BAND
HANDHELD**

DJ-S40T Pocket-sized UHF HT - Covers 420-450 MHz; 500mW power output or 1W by using optional NiMH or external DC supply. 100 memories; One call channel and several scan modes; 38 CTCSS encode/decode tones and 4 European tone bursts; Large, easy-to-read, illuminated display; External device control feature; Comes with AA battery case, belt clip, wrist strap and flexible SMA antenna.

Dim: 2.2" w x 4.0" h x 1.2" d; 3.6 oz. **\$89.99**

Available Accessories:

EBP52N 3.6V 500mAh NiMH battery, EBP53N 6V 500mAh NiMH battery, EBP54N 3.6V 1500mAh NiMH battery, EDC105 Drop-in NiMH charger without power supply, EDC37 13.8V power cable, EDC43 Cigarette lighter cable, EDC93 Wall power supply for EDC105, EDH31 Dry cell battery case, EME12 Headset/earphone/mic w/VOX, EME13 Headset/ear bud/mic w/VOX, EME15 Earphone/mic w/VOX, EME20 Tie-pin mic/earphone, EME6 Earphone, EMS47 Speaker mic w/volume control, EMS8Z Remote speaker mic, ESC37 Soft case

DJ-S45T 440MHz FM HT

Rugged polycarbonate design is resistant to rain, dirt and dust. TX: 420-450 MHz; RX: 420-474 MHz. 100 memories and three types of Scan functions (VFO, Memory, Tone) with timed and busy settings. Three different Tone Burst tones. Thirty-nine separately selectable CTCSS encode and decode tones, Tone Call and Bell (pager). Power Output: 2W with 6.0V external DC power source, approx. 1W with special order EBP-60 Li-Ion pack, approx. 0.5W with 2 Alkaline AA cells and approx. 0.4W with 2 Ni-MH rechargeable AA cells. The low power TX position gives approx. 0.5W at 6.0Vdc and approx. 150mW at 2 AA Ni-MH cells. Back-lit, Easy-to-Read LCD display. Computer-programmable with free software downloadable from Alinco website (with optional ERW-4 or ERW-7 cable). Includes belt clip, hand-strap, AA battery case and flexible SMA antenna.

Dim: 2.24" w x 3.86" h x 1.17" d; 5.7 oz. **\$119.99**

Available Accessories:

EME6 Earphone, ERW4 PC Cable, ERW7 USB PC cable, ESC40 Soft case

**SINGLE & DUAL BAND
HANDHELD**

DJ-196T 2 Meter FM HT 5W output; 130-174 MHz receive; 40 multi-function memory channels; MARS/ CAP capability; Alphanumeric display; CTCSS encode/decode & DCS; S-meter; Auto dialer; Cable cloning; Computer programming capability; Back lit keypad. Dim: 4.9" h x 2.2" w x 1.6" d; 13.2 oz. **\$119.99**

DJ-296T 220 HT - Same as above except has a range of 222-225 MHz. **\$149.99**

DJ-496T 440 HT - Same as above except has a range of 430-450 MHz. **\$149.99**

DJ-596T MK II 2M/440 MHz Dual Band HT - 5W output on both bands with standard NiMH battery; Wide or narrow FM; Digital voice optional; Extended receive capabilities; CTCSS/DCS encode and decode; Three scan modes; Illuminated keys and display; Large display shows alphanumeric designations for each of the 100 memories; 9 autodial memories; ± 2.5 ppm crystal; Operates on 6-16VDC, battery charges while on external source. **\$209.99**

Available Accessories:

EBP50N 9.6V 700mAh 5W NiMH battery, EBP51N 9.6V 1500mAh 5W NiMH battery, EBP56N 7.4V 1000mAh Li-Ion battery, EDC111 Charger for EBP56N, EDC133 NiMH quick charger, EDC16B Cigarette lighter cable and filter, EDC36 Angle plug power cable with filter, EDC37 13.8V power cable, EDC43 Cigarette lighter cable, EDC88 Rapid charger, EDC93 Wall charger with power supply, EDC97 NiMH quick charger, EDH30 Dry cell battery case, EJ470 Digital board (DJ-596TMKII only), EME12 Headset/earphone/mic with VOX, EME13 Headset/earbud/mic with VOX, EME15 Earphone/mic with VOX, EME20 Tie-pin mic/earphone, EME6 Earphone, EMS47 Speaker mic with volume control, ERW4 PC cable, ERW7 USB PC cable, ESC36 Soft case for EBP48N, SW596 Windows programming software (DJ-596TMKII only)

ALINCO
AMATEUR RADIO'S VALUE LEADER™

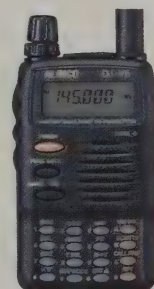
**DUAL BAND
HANDHELD**

DJ-C7T Credit Card Size VHF/UHF Dual Band Micro Handheld TX/RX: 144-147.995, 430-449.995 MHz. RX: FM broadcast (87.5-107.995 MHz), AM aircraft (108-173.995) and 380-511.995 MHz. AM/FM/WFM modes. Power: 300mW with supplied 3.7V Lithium-ion battery or 500mW with external 6V power source.

200 memory channels; 5 pairs of program scan band; Priority watch; 3 types of scan including CTCSS tone search; Split-operation; CTCSS encode and decode; TSQ and 4 European burst tones standard; Internal speaker, SMA antenna port; Mic/earphone/DC jacks; Cable cloning; Battery saver; Dim: 2.3" w x 3.8" h x 0.57" d; 3.6 oz. **\$169.99**

Available Accessories:

EBP58N Lithium-ion battery, EDH32 Cigarette lighter cable, EME18 Earphone, EME24 Earphone/microphone, EME25 Curl cord earphone, EMS60 Speaker/microphone, ERW4 PC cable, ERW7 USB PC cable, ESC38 Soft case



DJ-V5TH VHF/UHF Dual Band FM HT - Full 2 meter and 440 Amateur band coverage. Standard high-power 700mAh NiCad battery pack - up to 5W output; 3 output settings; Expandable receive range 76-999 MHz (cellular blocked); Split-band operation capability; Eight different tuning steps; Alphanumeric display - up to 6 characters; 200 memory channels plus two call channels; CTCSS encode and

decode; DTMF squelch; 4 different European tone bursts; 4 scan modes and 5 programmable scan banks; Auto-dial memories; SMA connector; Wire cloning capable; Accepts up to 13.8V DC input. Dim: 4.5" h x 2.25" w x 1.75" d; 13 oz. **\$209.99**

Available Accessories:

EBP46N 9.6V 600mAh 5W NiCad battery, EDC16B Cigarette light cable with filter, EDC36 Angle plug power cable with filter, EDC37 13.8V power cable, EDC43 Cigarette lighter cable, EDH29 Dry cell battery case, EME12 Headset/earphone/microphone with VOX, EME13 Headset/ear bud/microphone with VOX, EME15 Earphone/microphone with VOX, EME20 Tie-pin mic/earphone, EME6 Earphone, EMS47 Speaker mic with volume control, EMS8Z Remote speaker mic, ESC35 Soft case for EBP45N/46N

**Our service is
second to none.
Give us a call or email us
at info@aesam.com with
your inquiries.**

HF AT HOME OR ON THE GO!



HIT THE ROAD!

IC-7000

COMPACT MULTI-BAND RIG

- HF/6M/2M
- 2 - 100 Watts Output Power
- General Coverage RX: 0.3-60 MHz
- Digital IF Filters
- Digital Voice Recorder

IC-706MKIIG

**COMPACT HF/VHF/UHF
ALL MODE TRANSCEIVER**



IC-703 PLUS

**HF/50 MHz
ALL MODE QRP TRANSCEIVER**



GO MOBILE HF PLUS!

Visit your Icom dealer today!

Free literature: 425.450.6088

or www.icomamerica.com



Proud Sponsor

IC-718

- 100 Watt Output, Full Duty Cycle
- One-touch Band Switching
- RF Gain Control
- Built-in CW Keyer
- Built-in VOX



IC-746PRO

- 100 Watt Output Power, Full Duty Cycle
- All Mode, Including RTTY
- 32 Bit IF-DSP + 24 Bit AD/DA Converter
- Enhanced RX Performance
- Selectable IF Filter Shapes for SSB + CW



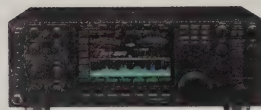
IC-756PROIII

- 100 Watt Output, Full Duty Cycle
- 32 Bit IF-DSP + 24 Bit AD/DA Converter
- +30dBm 3rd Order Intercept Point
- Low-distortion BPF Switching
- Real-time Spectrum Scope with Mini Scope



IC-7800

- Built-in 200 Watt Output, Full Duty Cycle
- Four 32 Bit IF-DSPs + 24 Bit AD/DA Converters
- 2 Completely Independent Receivers
- +40 dBm 3rd Order Intercept Point
- Selectable, "Build Your Own" IF Filter Shapes



GET THE 1kW ADVANTAGE!

IC-PW1

- 160M - 6M, All Band*
- Full Duty Cycle
- Desktop Size with Removable Control Head
- Automatic Antenna Tuner Built-in
- Internal Power Supply



*Frequency coverage may vary. Refer to owner's manual for exact frequency specs.

©2007 Icom America Inc. The Icom logo is a registered trademark of Icom Inc. All specifications are subject to change without notice or obligation. 9114

ICOM®

ICOM HF BASE STATION



C-718 HF All Band Transceiver – Perfect for beginners or backup rig. Covers 160–10M with 0.03–30 MHz RX in SSB, CW, RTTY and AM modes. 100W (40W AM); 101 memories; Multiple scan functions; Front mounted speaker; IF shift; Mic compressor; RF gain control; Noise blanker; RF attenuator and preamp; Auto notch; Electronic keyer; VOX; Digital S/R meter; High frequency stability; Flexible filter selection; Hand mic. included; 3.8VDC @ 20A.

Dim: 9.4" w x 3.75" h x 9.4" d; 8.5 lb..... **\$549.99**

Available Accessories

BET 706TUNECONT Better RF tune control IC706/718, AH2B Whip with mount, AH4 80-6M 120W auto wire antenna tuner, AT180 HF-6M auto coax antenna tuner, CR338 High stability crystal, CT17 Level converter, FL222 9 kHz 455 kHz IF SSB filter, FL257 3.3 kHz 455 kHz IF SSB filter, FL52A 500 Hz 455 kHz IF CW filter, FL53A 250 Hz 455 kHz IF CW filter, MB23 Carrying handle, MB5 Mobile mount, OPC025D DC cable, OPC598 23' extension cable (AT180), OPC599 7+8-pin-13-pin adapter, PS125 25A switching supply, SM20 Stand mic for base station, SP10 1/4" line external speaker, SP20 Speaker with audio filters, SP23 Speaker with audio filters, UT102 Voice synthesizer, UT106 DSP unit, W4R OBE703718DIY CW & SSB Collins filters

HF/6M/2M BASE STATION



C-746PRO HF/VHF All Mode Transceiver Covers 160–10M + 6M + 2M with 0.03–60 MHz, and 108–174 MHz RX. 100W output all bands; 32-bit floating DSP and 24-bit AD/DA converter; AGC loop management; IF filter width and shape variable; All mode signal modulation/demodulation; RTTY demodulator and decoder; Digital twin PBT capability; 100 memories (10 "memo pad"); PSK-1; Built-in HF-6M automatic antenna tuner; Two antenna connectors for HF/6M; IF-DSP noise reduction, auto notch and selectable audio peak filters; Noise blanker; Spectrum scope; Twin passband tuning; Triple band stacking register; Two-step preamp; F speech compressor; Tone squelch/scan; VOX; "marTune" variable speed tuning; Auto repeater offset; CW pitch control; QSO serial number generator; Transmit audio monitor; Up/down frequency mic; Requires 13.8V DC @ 20A. Dim: 11.3" w x 4.7" h x 12.5" d; 19.6 lbs..... **Free PS-125 @ \$1499.99**

Available Accessories

BET IMATE Better RF accessory, AH2B Whip with mount, AH4 80-6M 120W auto wire antenna tuner, CR338 High stability crystal unit, CT17 Level converter, HM36 Scanning and mic, OPC025D DC cable, PS125 25A switching power supply, SM20 Stand mic for base station, SP20 Speaker with audio filters, SP23 Speaker with audio filters, UT102 Voice synthesizer



IC-756PRO III HF/50 MHz All Mode Transceiver – Retains many of the popular PROII features, including: 32 bit floating DSP with 24-bit AD/DA converter; 51 types of settable pass bandwidths; Soft and sharp filter shapes to suit operation or band condition; RTTY demodulator/decoder; AGC loop management; Real time spectrum scope, and 5 in. color TFT display. New features and performance improvements include: Improved 3rd order intercept point of +30dBm; 5 MHz band standard (USA version); Same "Mini-scope" function adopted from the IC-7800; SSB transmit bandwidth which can be adjusted for both high and low band; Improved BPF and 1st filter reduces distortion; Pre-amp changed to a noiseless feedback type to reduce 2nd order distortion; Saturation characteristics of mixer and surrounding circuits improved; Clock function displaying local time, UTC time, etc.; Screensaver function for long LCD life and reduced "burn in". Dim: 13.3" w x 4.3" h x 11.2" d; 21 lbs **@ \$2699.99**

Available Accessories Coupon may expire 5-31-07

BET IMATE Better RF accessory, AH2B Whip with mount, AH4 80-6M 120W auto wire antenna tuner, CT17 Level converter, HM36 Scanning hand mic, OPC025D DC cable, PS125 25A switching power supply, SM20 Stand mic for base station, SP20 Speaker with audio filters, SP23 Speaker with audio filters, UT-102 Voice Synthesizer



VHF/UHF DUAL BAND BASE STATION



IC-910H VHF/UHF All-Mode – With the optional 1200 MHz module installed, it becomes an SSB/CW/FM **tribander**. Covers 144-148, 430-450 and 1240-1300 MHz (optional). Output: 5-100W (2M), 5-75W (440 MHz), 10W (1.2 GHz optional); Memories: 99 regular, 1 Call, 6 Scan edges (per band) and 10 Satellite; Large 3.5 in. multi-function LCD display, 10-key direct frequency entry keypad; Satellite mode support; Simultaneously works 2 bands in receive and full duplex; CW full support; Versatile scanning functions; Memory pad; 50 tone CTCSS encode; Speech compressor; One-touch & Auto repeater offset; IF shift; VOX; 13.8V DC @ 23A. Dim: 9.5" w x 3.6" h x 9.4" d; 10 lbs..... **\$1279.99**

Available Accessories

AG25 2M mast mount preamp, AG35 430 mast mount preamp, CR293 High stability crystal unit, CT17 Level converter, FL132 500 Hz main receiver CW filter, FL133 500 Hz sub-band receiver CW filter, MB23 Carrying handle, MB5 Mobile mount, PS125 25A switching power supply, SM20 Stand mic for base station, SP10 Slim-line external speaker, UT102 Voice synth., UT106 DSP unit, UX910 10W 1.2 GHz module



IC-7800 HF/50 MHz Transceiver – The Icom flagship radio that is a fusion of 40 years of analog RF circuit development expertise, with cutting-edge digital technology. The result, astonishing 110dB dynamic range, +40dB 3rd order intercept point in HF, and other features like a double conversion superheterodyne system, mechanical relay BPF switching & three roofing filters. The ultimate in performance, function, and quality without compromise. 1.8 to 29.7 + 50 to 54 MHz TX, 0.03 - 60 MHz general RX; USB, LSB, CW, RTTY, PSK-31, AM, FM, SSB DATA modes; SSB/CW synchronous tuning; 101 memories (99 regular, 2 scan edges), 10-character comment; Ultra high stability oven control crystal oscillator; Main and SUB receiver, Dual watch; RTT and ATX; Separate 50 MHz preamp and mixer; 5-200W (5-50W AM) output; Built-in supply (85–265VAC) and high-speed HF/50 MHz automatic antenna tuner; Voice synthesizer (frequency, mode and signal strength); Four 32-bit, floating point, DSP units and 24-bit AD/DA converters; Digital RF speech compressor; Mic. equalizer; Triple band stacking register; Multiple scan functions; Digital twin passband tuning; 16-step variable DSP noise reduction; Variable noise blanker; 7" color TFT LCD (spectrum scope S-meter, and RTTY/PSK-31 decode messages); RTTY/PSK-31 without PC connection; Digital voice recorder (200 second RX memory, 99 second TX); CF memory card for setting storage; Multi-function, fully adjustable, electronic memory keyer (DSP waveform shaping); Double key jack system; Full break-in; 50 CTCSS tone encode/decode; UTC/local clock and timer function; Optical digital in/output; CI-V interface capability; BNC-type transverter connector; External CRT display connector; Four antenna connectors; Includes 64MB CF memory card, spare fuses, key and pin plugs, rack mount handles, AC cable, speaker plugs, ACC plugs, power plug. Dim: 16.6" w x 5.9" h x 17.1" d; 55 lbs. **\$10599.99**

Available Accessories

BET IMATE Better RF message accessory, CT17 Level converter, HM36 Scanning hand mic, SM20 Stand mic for base station, SP20 Speaker with audio filters, SP23 Speaker with audio filters

POPULAR ICOM ACCESSORIES



SM-20 Electret Microphone – Up-Down tuning; PIT switch with lock feature; Gain adjustment; Low Cut switch; ICOM 8-pin plug. Compatible with the IC-7800, IC-746, 746Pro, 756, 756Pro, 756Pro II & III, 775, 781, 820, 821, 910H & 920.

Requires OPC-589 with IC-706 & IC-7000 **\$199.99**

SP-23 Speaker w/Audio Filters – Matches Icom receivers and transceivers. Dual switchable radio input jacks and four separate audio filters: HPF 1 (500 Hz), HPF 2 (250 Hz), LPF 1 (3000 Hz), LPF 2 (1000 Hz). Speaker on-off switch; 1/4 in. head-phone jack; Metal construction; Tilt-stand. Dim: 5.75" w x 4.25" h x 11.2" d; 3.6 lbs. **\$199.99**

PS-125 Base Station Power Supply

Provides full 25 Amps of power for Icom radios. Dim: 4.4" w x 3.7" h x 11.3" d; 6.6 lbs..... **\$299.99**

© Price after mail in rebate (USA only) © Price after instant coupon; rebates, coupons and freebies may expire 6/30/07. Please call/web for current price and promotions.

• 1-800-321-3594 OH • 1-800-327-1917 FL • 1-800-634-6227 NV

Email Your Questions to info@aesham.com



Icom Base Radios & Accessories

33

Price Guide
Used / Demo
Ham Radios
Accessories
Antenna
Publications
Other
Radios
Weather
& GPS
Audio / Video
Tools
AES
Information

HF RADIO



IC-7000 All band Multimode Mobile Transceiver
Covers HF/6M/2M/440 MHz with .03-199 MHz RX; 503 alpha memories; Power: 100W (HF-6M), 50W (2M), 35W (440 MHz). 41 bandwidths standard with sharp or soft filter shape. The variable twin PBT allows you to narrow the IF passband, or shift the entire passband to eliminate QRM. 2.5 inch (diagonal) color TFT screen. Supports a two-mode band scope; An internal memory keyer provides four memories; Detachable control head (requires optional separation cable); 503 memories; Digital RF Speech Processor; S/PWR/SWR meter; RTT; Preamp and Attenuator; RTTY Demodulator; Adjustable SSB bandwidth; DTMF memory; VOX; Full break-in CW with adjustable pitch. Comes with backlit remote mic, spare fuses, key plug and DC power cable. 13.8VDC @ 22A. Dim: 6.56" w x 2.59" h x 7.09" d. 5.1b **Free RMK-7000 © \$1299.99**
Coupon & Freebie may expire 5-31-07

Available Accessories:

AH2B 40-6M whip with mount (use tuner), AH4 80-6M 120W auto wire antenna tuner, AT180 HF-6M auto coax antenna tuner, CT17 Level converter, HM154T TTP Mic, LC156 Back pack carrying case, MB105 Remote head bracket, MB106 Carry handle, MB62 Main unit mounting bracket, MB65 Mounting base, OPC1443 11.5' remote cable, OPC1446 16' remote cable, OPC1457 DC cable, OPC589 8-pin microphone jack adapter cable, OPC598 23' extension cable, AT180, OPC599, 7+8-pin to 13-pin adapter, OPC742 13-pin cable, RMK7000 Remote mounting package (MB62/MB105/OPC1443), SM20 Stand mic. for base stations (OPC589 required), SP10 Slim-line external speaker, W4R ANTBOSSII W4RT Interface

HF QRP RADIO



IC-703 PLUS HF QRP Transceiver - For home, shack, mobile DX'ing and in the field. Covers 160-10M + 6M in SSB/CW/RTTY/AM/FM modes. Power: 10W @ 13.8VDC and 5W @ 9.6VDC. Similar to the IC-706 series, but HF + 6M without VHF/UHF. Built-in, relay-type automatic HF antenna tuner; 105 memories; Memory keyer; Large capacity external battery pack and antenna options.
Dim: 6.5" w x 2.1" h x 7.875" d; 4.4 lbs. © **\$679.99**

Available Accessories:

AH2B Whip with mount, AH4 80-6M 120W auto wire antenna tuner, AH703 40/20/15/10/6 20W 4.6' antenna, BC155A Battery charger/BP228, B228 9.6V 2800mAh external NiCad, CT17 Level converter, FL222 1.9kHz 455kHz IF SSB filter, FL257 3.3kHz 455kHz IF SSB filter, FL524 500kHz 455kHz IF CW filter, FL53A 250kHz 455kHz IF CW filter, HM154T TTP mic, LC156 Back pack carrying case, MB62 Mounting bracket for main unit, MB63 Mounting bracket for control panel, MB65 Mtg base platform, MB72 Carrying handle, OPC1229 Extra DC cord, OPC1248 IC703 to PS125 cable, OPC581 11.5' separation cable, OPC587 16' separation cable, OPC589 8-pin mic jack adapter cable, OPC599 7+8-pin-13-pin adapter, OPC742 13-pin cable, RMK706 Remote mtg kit, SM20 Stand mic for base station, SP10 Slim-line ext. spkr, UT102 Voice synthesizer, W4R OBF703718DVF CW & SSB Collins Filters

HF RADIO



IC-706 MK II-G Compact HF/VHF/UHF All Mode - Covers 160-10M + 6M, 2M and 70cm; with broadband 0.03-200 MHz receive including AM/FM broadcast bands. 107 alphanumeric memories; Power: 100W (40W AM) on 160-6M, 50W (40W AM) on 2M, 20W (8W AM) on 70cm. RTTY; PSK31; Speech compressor; Detachable control panel; 2 filter slots; AF-DSP; Tone encode, tone scan and tone squelch; Cross band split; Noise blanker; IF shift; Preamp/attenuator; CW keyer and pitch control with reverse; Break-in; VOX; Bandscope; SWR graphic sweep; One-button duplex and automatic repeater offset; 13.8V DC @ 20A. Dim: 6.6" w x 2.3" h x 7.9" d; 5.5 lbs. **Free RMK-706 © \$899.99**

Available Accessories:

BET 706TUNECON Better RF IC706 tune control, AH2B Whip with mount, AH4 80-6M 120W auto wire antenna tuner, AT180 HF-6M auto coax antenna tuner, CR282 Stability crystal, CT17 Level converter, FL100 500 Hz 9 MHz IF CW filter, FL101 250 Hz 9 MHz IF CW filter, FL103 2.8 kHz 9 MHz IF SSB filter, FL223 1.9 kHz 9 MHz IF SSB filter, FL232 350 Hz 9 MHz IF CW/RTTY filter, HM154T TTP microphone, LC156 Back pack carrying case, MB62 Mounting bracket for main unit, MB63 Mounting bracket for control panel, MB65 Mounting base platform, MB72 Carrying handle, OPC025D DC cord, OPC581 11.5' separation cable, OPC587 16' separation cable, OPC589 8-pin mic jack adapter cable, OPC598 23' extension cable for AT180, OPC599 7+8-pin-13-pin adapter, OPC742 13-pin cable, PS125 25A switching power supply, RMK706 Remote mounting kit, SM20 Stand mic for base station, SP10 Slim-line external speaker, UT102 Voice synthesizer, W4R ANTBOSSII W4RT Interface, W4R OBPUNIV Speech compressor

1.2 GHZ D-STAR RADIO



What is D-STAR?

D-STAR is a new ham radio system which offers digital voice and data communication. It connects repeater sites over microwave links and the Internet and forms a wide area ham radio network. The D-STAR system provides a new capability and functionality to the ham radio world and increases the efficiency of emergency communications.

What can the D-STAR system do?

128kpbs digital data and 4.8kpbs digital voice communication. The D-STAR system provides not only digital voice (DV mode) communication but also digital data transmission (DD mode). It can exchange various data files such as graphics, images, etc., at 128kpbs.

ID-1 10W 1.2 GHz FM Digital Transceiver with Control Head - Operates with D-Star 1.2 GHz repeaters, plus simplex digital operation with another ID-1. Its operating frequency range is 1240-1300 MHz with FM and GMSK (digital) modulation formats. Includes alphanumeric memories, CTCSS encode/decode and scanning, Full PC control via USB port and supports 10 BASE-T ethernet for 128K data operation © **\$979.99**

Available Accessories:

MB17A Quick release bracket, OPC1132 9.8' DC cable, OPC347 23' DC cable, OPC440 16.4' mic, extension cable, SP10 Slim-line external speaker

D-Star

ICOM Digital Voice & Data
2M/440 ANALOG & DIGITAL MOBILES



IC-2820H 2M/440 Analog Dual Bander with Digital and GPS Capability - Covers 144-148 and 430-450 MHz with wideband receive (Left Band) 118-549.95 / (Right Band) 118-173.995, 375-549.995 and 810-990.990 MHz (cellular blocked). V/V and U/U simultaneous receive, 522 memory channels. Weather Alert. Power: 50/15/SW out on both bands. Removable front panel, built-in CTCSS Encode/Decode, selectable amber/green display, PC compatibility. Two antenna jacks support diversity reception in the 127, 136, 146, 375, 440 and 500 MHz bands (two antennas required). Diversity compares signal strength from the two antennas, and automatically selects the strongest signal to hear. D-STAR upgradable and DV (digital voice) with the optional UT-123. Packet ready (9600 BPS - 6-pin DIN). Includes the full-function backlit HM-133 remote DTMF hand microphone, mounting bracket, power cord and spare fuses. Supplied with OPC-1663 and OPC-1712 separation cables. Dim: 5.9" w x 1.65" h x 7.4" d, 3.3 lbs. © **\$649.99**

Available Accessories:

CS2820 Windows cloning software, MB65 Mounting base, OPC1132 9.8' DC cable, OPC1529R Data communications cable, OPC347 23' DC cable, OPC440 16.4' Microphone extension cable, OPC441 16.4' Speaker extension cable, OPC474 Radio to radio clone cable, OPC478 PC RS-232 cable, OPC478U PC USB cable, OPC589 8-pin microphone jack adapter cable, SP10 Slim-line external speaker, UT123 DV mode and GPS receiver



ID-800 2M/440 Dual Bander Analog & Digital Features D-Star Digital Voice Capability and supports 20 character short text messaging with an on screen display. Detachable control head; wideband receive; Three power settings: 55/15/SW (2 meters), 50/15/SW (440 MHz); Built-in CTCSS decode/encode with tone scan; PC compatible, 9600 BPS packet ready; 500 alphanumeric memories (6 characters), 16 DTMF memories.

Includes: Built-in duplexer; Separation cable; Remote hand microphone; Mobile mounting bracket, power cord and spare fuses © **\$609.99**

Available Accessories:

CSDB00 Cloning software, MB17A Quick release bracket, OPC1132 9.8' DC cable, OPC1384 RS232C data cable, OPC347 23' DC cable, OPC440 16.4' mic, extension cable, OPC441 16.4' speaker extension cable, OPC478 PC RS232C cable, OPC478U PC USB cable, OPC601R 23' separation cable, SP10 Slim-line external speaker

• Price after mail in rebate (USA only) • Price after instant coupon; rebates, coupons and freebies may expire 6/30/07. • Price after mail in rebate (USA only); rebate starts 4/1/07 & may expire 6/30/07. Please call/web for current price and promotions.



IC-2200H 2M FM Transceiver - A rugged design with a large selectable Amber or Green LCD display with four levels of brightness, backlit keys and large oversized tuning dial. Covers: 144-148 MHz transmit with 118-174 MHz receive (includes AM aircraft band and Weather channel with Alert). Improved receive IMD helps provide protection from excessively strong signals such as pagers. Power levels: 5, 25, 10 or 5W; Choice of FM/Narrow mode; 207 alphanumeric memories (six scan edges, one CALL channel); Dynamic Memory Scan; 50 CTCSS and 104 x 2 DTCSS encode/decode plus tone scan functions and "pocket beep"; Three-way Priority watch; 24 DTMF autodial memories; Squelch delay; GPS, NMEA compatible (GPS not supplied). Includes remote control microphone, DC power cable, mobile mounting bracket and microphone hanger. Dim: 5.5" w x 1.56" h x 5.25" d; 2.75 lbs. @ **\$139.99**

Available Accessories:

CS2200H Windows software, MB17A Quick release bracket, OPC1132 9.8' DC cable, OPC347 23' DC power cable, OPC440 16.4' mic extension cable, OPC441 16.4' Speaker Ext. Cable, OPC474 Radio-to-radio cloning cable, OPC478 PC RS-232C cable, OPC478U PC USB cable, OPC589 8-pin mic jack adapter cable, SP10 Slim-line external speaker, UT108 DTMF decoder unit, UT118 Digital board

SINGLE BAND MOBILE



IC-V8000 2M FM Transceiver - Big 75W power output. Covers 144-148 transmit with 136-174 MHz receive. 207 alphanumeric memory channels including one call and six scan edge channels; Each memory channel stores a six character name, tone frequency, skip info, and more; Weather alert and weather channel scan; DMS scan system; Priority watch; CTCSS/DTCSS; Dynamic Memory Scan (customize/manage memory banks); DTMF encode and pager function capability; 10 DTMF memory channels stores DTMF codes with up to 24 digits; Versatile cloning from transceiver to transceiver or PC to transceiver; Front mounted speaker; One-piece, die-cast, rugged, aluminum chassis; Large cooling fan on the back and large cooling fins; Selectable Green or Amber display; Includes HM-133V remote control microphone. Dim: 5.9" w x 2" h x 5.9" d; 2.22 lbs. @ **\$179.99**

Available Accessories:

SV8000 Windows software, OPC1132 9.8' DC cable, OPC347 23' DC cable, OPC440 16.4' mic extension cable, OPC441 16.4' Speaker Extension Cable, OPC474 Radio-to-radio cloning cable, OPC478 PC RS-232C cable, OPC478U PC USB cable, OPC589 8-pin mic jack adapter cable, SP10 Slim-line external speaker, UT108 DTMF decoder unit, 8000MMB Mobile bracket

DUAL BAND MOBILE



IC-208H 2M/440 Dualband Mobile - Covers 144-148 and 430-450 TX with 118-173, 230-549, 810-999 MHz (cell blocked) wide band RX. Power: 55/50W (2M/440); Weather channel and alert; 500 6-character alpha memory channels; Improved Dynamic Memory Scan (10 banks), 2-100 channels per bank; New bank listing allows selection of banks you want to scan; Built-in CTCSS/DTCSS tone squelch; Operate with control head attached or remote mounted with included 11.5 ft. separation cable; Pocket beep and tone scan; 16 DTMF memories; 9600bps data connector; Auto repeater function; Multicolor display lighting and backlit buttons; Remote control mic. included. Dim: 5.56" w x 1.56" h x 7.31" d; 2.65 lbs. @ **\$254.99**

Available Accessories:

CS208 Windows cloning software, MB17A Quick release bracket, MB58 Remote controller bracket, MB65 Mounting base platform, OPC1132 9.8' DC cable, OPC347 23' DC power cable, OPC440 16.4' mic extension cable, OPC441 16.4' Speaker Extension Cable, OPC474 Radio-to-radio cloning cable, OPC478 PC RS-232C cable, OPC478U PC USB cable, OPC589 8-pin mic jack adapter cable, OPC601R 23' separation kit, SP10 Slim-line external speaker

DUAL BAND MOBILE



IC-2720H 2M/70cm FM Transceiver - Provides VHF/VHF, UHF/UHF simultaneous receive along with VHF/UHF full duplex. Covers 144-148 & 430-450 MHz transmit with 118-550 MHz, 118-174, 375-550 & 810-999 MHz receive (cellular blocked), includes AM Aircraft band and Weather channel with Alert. Power: 50/35W (2M/70cm); 212 memories (10 banks), 2 call, 10 scan edges; Auto repeater offset; Backlit remote control microphone; Independent controls for each band; 12 DTMF memories; Selectable Amber/Green display; CTCSS/DTCSS encode/decode, tone scan and pocket beep; Dynamic memory scan; 1200/9600 bps 6-pin terminal connector; PC programmable with optional software and cable. Dimensions: 5.5" w x 2" h x 1.1" d; 5.29 oz. (head unit), 5.5" w x 1.6" h x 7.4" d; 3.08 lbs. (main unit)..... C/O @ **\$329.99**

Available Accessories:

CS2720 Windows/DOS cloning software, MB17A Quick release bracket, MB65 Mounting base platform, MB84 Remote controller bracket, MB85 Combination bracket, OPC1132 9.8' DC cable, OPC1156 11.5' separation cable, OPC347 23' DC power cable, OPC440 16.4' mic extension cable, OPC441 16.4' Speaker Extension Cable, OPC474 Radio-to-radio cloning software, OPC478 PC RS-232C cable, OPC478U PC USB cable, OPC589 8-pin mic jack adapter cable, SP10 Slim-line external speaker

Ⓢ Price after mail in rebate (USA only) Ⓢ Price after instant coupon; rebates and coupons may expire 6/30/07. Please call/web for current price and promotions.



IC-V8 SPORT 2M FM HT None easier to use! Covers 144-148 MHz; 5.5W output; 100 easy to recall alphanumeric memories; Scans 40 channels per second; Personalized scanning ranges; Up/Down and Rotary controls; CTCSS/DTCSS encode/decode; Tone scan; PC programmable to set-up parameters; Acoustical design for best audio; Full-sized input keypad; Durable polycarbonate front panel and aluminum die-cast chassis built to MIL specs. Comes with AA battery case. Dim: 2.13" w x 5.2" h x 1.4" d; 12.3 oz. @ **\$99.99**

Available Accessories

AD101 Battery adapter for BP211 and BC119N01, AD9411 Adapter cup for BC119N01, BC119N01 Desk charger, BC144N Rapid Desk Charger, BP208N Battery case, BP209N 7.2V 1100mAh 5.5W battery, BP210N 7.2V 1650mAh 5.5W battery, BP211N 7.4V 1800mAh Li-Ion battery, BP222N 7.2V 600mAh 5.5W battery, CP17L Right angle cigarette cable for charger, CSV8 Cloning software, HM128L Earphone + mic, HM158L Rectangle speaker/mic/ear-jack/clip, HM46L Slim-line speaker mic with right angle plug, HM54 Heavy-duty speaker mic, HM75A Remote control mic, HS51 Headset/VOX, HS94 Earpiece headset, LC3FGSWIVEL Leather case with swivel, MB103 Spring loaded belt clip for N-Series battery, MB74N Spring loaded belt clip, MB86 Swivel belt clip, MB87 Swivel belt clip, OPC474 Radio-to-radio clone cable, OPC478 PC RS-232C cable, OPC478U PC USB cable, OPC515L Right angle DC cable for charger, SP13 Earphone, UT108 DTMF decode unit, VS1L Right angle VOX-PTT unit for HS94

IC-V82 2M High Power Digital Capable Handheld - 7W output @ 7.2V DC; 6.0 - 10.3V DC input; 136-174 MHz RX; Optional UT-118 unit provides D-STAR format digital voice and slow data comm. (20-character short data message, digital code squelch, EMR comm., digital pocket beep, Stand-by beep); Built in CTCSS/DTCSS; Auto low power/power saver (30mA drain); 200 memories (10 memory banks); Auto repeater function; Backlit display; PC cloning capability; NOAA weather channel RX (IC-V82 USA ver. only); 16 DTMF dial memory, Die cast aluminum frame and heat sink; 7.2V battery included. Dim: 2.1" w x 5.5" h x 1.4" d; 13.8 oz. @ **\$119.99**

IC-U82 - Same as IC-V82, but TX: 420-450 MHz, RX: 400-479 MHz; SW @ **\$119.99**

Available Accessories

AD101 Battery adapter for BP211 and BC119N01, AD9411 Adapter cup for BC119N01, BC119N01 Desk charger, BC144N Rapid desk charger, BP208N Battery case, BP209N 7.2V 1100mAh 5.5W battery, BP210N 7.2V 1650mAh 5.5W battery, BP211N 7.4V 1800mAh Li-Ion battery, BP222N 7.2V 600mAh 5.5W battery, CSV82 cloning software, HM128L Rectangle plug earphone + mic, HM158L Rectangle speaker/mic/ear-jack/clip, HM46 Slim-line speaker, HM54 Heavy duty speaker, HM75A Remote control mic, HS85 Headset w/VOX, HS94 Earhook headset w/boom mic, MB103 Spring belt clip, MB86 Swivel belt clip, OPC474 Cloning cable, OPC478 PC RS-232C cable, OPC478U PC USB cable, SP13 earphone, UT108 DTMF decoder unit, UT118 D-Star Digital unit (digital voice and data capability at 4.8kbps), VS1L PTT/VOX unit

NEW IC-V85

2M @ 7 Watts • RX: 136-174MHz*
• 107 Alphanumeric Memories • CTCSS
and DTCSS Tone Squelch • DTMF Decodes
Operation with Optional UT-108 • Compact
Body • IPX4 Weather Resistant



NEW IC-2820H **D-STAR optional**

2M/70CM @ 50W • RX: 118-173.995,
375-349.995, 810-999.99MHz • 572
Alphanumeric Memories • Optional GPS
Retrieve: (UT-173) • V/V, U/U, V/U
• Simultaneous RX • Remote Controller



D-STAR optional



IC-V82/IC-U82

2M @ 7W (V82)/70CM @ 5W (U82) • RX: 136-174MHz
/420-450MHz* • 200 Alphanumeric Memories • Optional
D-STAR Features Include Callsign Calling, Text Message, Position
Exchange*, and More!



IC-T90A

6M/2M/70CM@5W • Wide Band RX: 0.495-999.99MHz*
• 500 Alphanumeric Memories • 1300 mAh Li-ion Battery
• CTCSS & DTCSS Encode/Decode with Tone Scan



IC-T7H SPORT

2M/70CM @ 6W (13.8VDC) • RX: 118-174MHz & 400-
470MHz* • 70 Memory Channels • CTCSS Encode/Decode
with Tone Scan • Auto Repeater Function • AA Alkaline Case



IC-P7A

2M@1.5W; 70CM@1W • Wide Band RX: 0.495-
999.99MHz* • 1000 Alphanumeric Memories • Up to 20 Hour
Li-ion Battery • Rapid Charger Included • Super Compact Size



D-STAR optional

IC-91A

D-STAR ready

IC-91AD

2M/70CM@5W • Wide Band RX: 0.495-999.99MHz*
• 1304 Alphanumeric Memories • V/V, U/U, V/U (Dual Watch)
• Long-Lasting Li-ion Battery • IPX4 Weather Resistant
• Jump in on D-STAR and let the fun grow!



IC-7000

FOR THE LOVE OF HAM RADIO

HF+6M@100W, 2M@50W, 70CM@35W • RX: 0.030-
199.9MHz* • Dual DSP Processors • Digital IF Filters
• Twin Pass Band Tuning • Dual Manual Notch Filters



IC-706MKIIG

HF PERFORMANCE, MOBILE SIZE!

HF+6M @ 100W, 2M @ 50W, 70CM @ 35W • RX:
0.030-199.9, 400-470MHz* • 99 Alphanumeric Memories
• CTCSS Encode/Decode with Tone Scan • Built-in DSP



IC-703 PLUS

QRP TRANSCEIVER WITH BUILT-IN ANTENNA TUNER

HF+6M@0.1-10W (-4W AM) • RX: 0.030-60.0MHz*
• 105 Alphanumeric Memories • DSP Auto Notch and
Noise Reduction • Quick Power Set Function



ID-1

D-STAR ready

DIGITAL OR WORLD CLASS ANALOG

23CM @ 10W • RX: 1240-1300MHz* • High Speed
Digital Data & Voice, Analog Voice (FM) • Wireless Internet/
Network Capable • USB • Digital Callsign & Code Squelch



ID-800H

D-STAR optional

GO DIGITAL ON 2M & 70CM!

2M @ 55W/70CM @ 50W • RX: 144-148, 420-
450MHz* • Analog/Digital Voice & Data • Callsign Squelch
• CTCSS & DTCSS Encode/Decode w/Tone Scan



IC-2200H

D-STAR optional

RUGGED & RELIABLE 2M!

2M @ 65W • RX: 118-174MHz* • 207 Alphanumeric
Memories • Optional DV, Data & Callsign Squelch • CTCSS
& DTCSS Encode/Decode w/Tone Scan • WX Alert



IC-208H

COMPACT DUAL BAND WITH OPTIONAL REMOTE HEAD

2M @ 55W/70CM @ 50W • Wide RX: 118-173,
230-549, 810-999MHz* • 512 Alphanumeric Memories
• Wide/Narrow Band Switchable • Selectable Display Color



IC-V8000

LET YOUR SIGNAL BE HEARD!

2M @ 75W • RX: 136-174MHz* • 200 Alphanumeric
Memories • DMS Scanning • CTCSS Encode/Decode with
Tone Scan • Weather RX Scan with Alert



IC-V85 2-meter Handheld Covers 144-148 MHz with extended receive 136 to 174 MHz and up to 7W output. 107 memory channels including 6 scan edge and 1 CALL. Multiple scanning modes, 16 DTMF memory channels. Built-in CTCSS/DTCS Encode and Decode. Weather channel alert, backlit alphanumeric display, repeater lock-out, auto-repeater function, time-out timer and auto-power off. Easy-to-use ergonomic controls. Pager/DTMF decode function available with optional UT-108.

Dim: 2.2" w x 4.34" d x 1.35" d; 12.5 oz. **\$199.99**

Available Accessories

CP19R Cigarette cable w/filter, HM128L Right angle earphone & mic, HM158L Right angle speaker/mic/earphone/clip, HM75A Remote control mic, HS85 Headset w/VOX, HS94 Ear-piece headset, OPC474 Radio-to-radio clone cable, OPC478U PC USB cable, SP13 Earphone, UT108 DTMF decoder unit, VS1L Right angle VOX-PTT unit



DIGITAL CAPABLE DUAL BAND HT

IC-91A Digital Upgradable Dual Band HT Transmits on 2 meters and 440 MHz. The "A" band (top) offers wide reception from 495 kHz to 999.990 MHz (excluding cellular) in FM/WFM/AM modes. The "B" band (bottom) receives from 118.000 to 174.000 MHz and 350.000 to 470.000 MHz in FM/FM-N/AM/DV modes. Simultaneous receive of a

combination of the "A" and "B" bands allows V/U, V/U and U/U operation. Tuning steps include: 5, 5.25, 8.33 (only in air band), 9 (AM broadcast), 10, 12.5, 15, 20, 25, 30, 50, 100, 125 and 200 kHz. Alphanumeric memories: 1304. Power: 5/0.5W on either band. Analog/Digital upgradable with optional UT-121 Digital Voice Unit. In DV mode, you can record 30 sec. of audio into memory (or 15 sec. into 2 memory slots, or 10 sec. into 3 memory slots). Plays a recorded message (up to 10 sec.) in response to a call directed to the user's call sign. Audio messages can even be forwarded. The DV and Data mode conforms to JARL's D-STAR standard. With an external NMEA 0183 format GPS attached (not supplied), your own and others' position information can be sent and received. JIS-4 specification for weather resistance. Includes SMA-type antenna, Li-Ion battery, belt clip & charger.

Dim: 2.4" w x 4.2" h x 1.5" d; 10.6 oz. **\$329.99**

IC-91AD Digital Ready Dual Band HT - The IC-91A with UT-121 DV Unit installed. **\$449.99**

Available Accessories

AD92SMA SMA - BNC adapter, BC139 Desk rapid charger, BP216 AA battery case, BP217 7.4V 1300mAh lith-ion, CP19R Cigarette cable with filter, HM128 Earphone + mic, HM131 Speaker/mic/earphone jack/clip, HM75A Remote control mic, HS85 Headset with VOX, LC163 Carrying case, OPC474 Radio-to-radio clone cable, OPC782 Plug adapter cable, RS91 Remote control PC software (RS-232 cable), SP13 Earphone, UT121 Digital D-Star board (IC-91A only)



IC-77H SPORT 2M/440 MHz FM Dual Band HT Comes with AA battery case. 5W with optional 9.6V/650mAh battery or up to 6W @ 13.5VDC with optional DC power cable required; TX: 144-148 MHz & 440-450 MHz; RX: 118-174 MHz & 400-470 MHz; One-touch band switching; Priority watch; 70 memories with 9 DTMF for auto dialing; CTCSS tone encode & decode; 50 independently programmable tone frequencies; Auto power save; Auto repeater function; Auto Off; Thumb-touch lock; Internal guide; Backlit LCD; Wall charger; PC Programmable.

Dim: 2.3" w x 4.8" h x 1.1" d; 14.3 oz. **\$169.99**

Available Accessories

AD56 Battery pack adapter/rapid charger, BC110A wall charger, BC119N11 NiCad/NiMH desk charger, BP170 Battery case, BP172 4.8V 950mAh battery, BP173 9.6V 600mAh battery, BP180 7.2V 600mAh battery, CP12 Cigarette cable with filter, CP12L Right angle cigarette cable with filter, CSWHH4 Windows software with cable, FA1443B 2M/440 duck, HM128 Earphone + mic, HM131 Speaker/mic/earphone jack/clip, HM46 Slim-line speaker mic, HM54 Heavy-duty spkr mic, HM75A Remote control mic, HS10 Boom mic/headset, HS105A VOX unit, HS85 Headset with VOX, HS94 Earpiece headset, LC136 Case for 77H with BP170/171/172, LC137 Case for 77H with BP173/180, NCPI Nylon chest pack, OPC254L Right angle mini DC power cable, OPC474 radio clone cable, OPC478 PC RS232C cable, SP13 Earphone, VS1 VOX-PTT unit for HS94



IC-W32A 2M/440 MHz Dual Band HT - TX: 144-148 & 440-450 MHz; RX: 118-174 & 400-470 MHz; SW output @ 13.5V DC; 200 memories; 8-character alphanumeric memory identification; Keypad entry; Backlit display and keypad; HT-to-HT cloning capability or PC programming (optional accessories required); Independent tuning and volume and band controls; VHF/UHF exchange function allows assignment of VHF/UHF band controls to either knob; Meets MIL SPEC C/D/E for shock & vibration.

Dim: 2.25" w x 5.5" h x 1.4" d; 16 oz. **C/O \$249.99**

Available Accessories

AD51 Battery pack adapter/rapid charger, BC110A wall charger, BC119N11 NiCad/NiMH desk charger, BP170 Battery case, BP172 4.8V 950mAh battery, BP173 9.6V 600mAh battery, BP180 7.2V 600mAh battery, CP12 Cigarette cable with filter, CP12L Right angle cigarette cable with filter, CSWHH4 Windows software with cable, FA1443B 2M/440 duck, HM128 Earphone + mic, HM131 Speaker/mic/earphone jack/clip, HM46 Slim-line speaker mic, HM54 Heavy-duty speaker mic, HM75A Remote control mic, HS10 Boom mic/headset, HS105A VOX unit, HS85 Headset with VOX, HS94 Earpiece headset, LC128 Carrying case, NCPI Nylon chest pack, OPC254L Right angle mini DC power cable, OPC474 Radio-to-radio clone cable, OPC478 PC RS232C cable, SP13 Earphone, VS1 VOX-PTT unit for HS94

® Price after mail in rebate (USA only); rebates may expire 6/30/07.

® Price after mail in rebate (USA only); rebate starts 4/1/07 & may expire 6/30/07. Please call/web for current price and promotions.



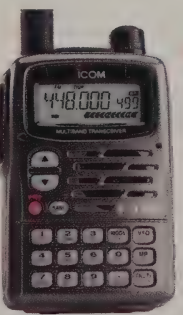
IC-P7A Dual band HT Covers 2M and 440 MHz FM. Power Output: 1.5W (2M) & 1.0W (440 MHz). Wideband receive from 495 kHz to 999.99 MHz (less cellular) in AM, FM and FM-W modes. Includes AM/FM/SW broadcasts and Weather Channels with Alert. Memories: 1,000 regular channels, 50 band scan edges and 200 auto memory write channels. The regular mem-

ory channels can be grouped into 18 banks of 100 channels. Alphanumerics allow naming channels and banks with 6-digit letters and numbers and can display the channel and bank names for easy recognition. Multiple scanning types, CTCSS and DTCS tones for repeater operation, or tone squelch operation and pocket beep for quiet stand-by. Ergonomically designed and features the minimum number of buttons to provide quick and easy operation. Includes flexible SMA antenna, wrist strap, Li-ion battery pack, rapid 3-hour battery charger and AC adapter.

Dim: 1.85" w x 3.1" h x 1.1" d; 5.64 oz. **\$229.99**

Available Accessories

BP243 3.7V 1800mAh Lith-Ion Battery pack, CP21LR Cigarette cable with filter, CSP7 Windows cloning software, HM128 Earphone + mic, HM131 Speaker/mic/earphone jack/clip, LC161 Carrying case, OPC474 Radio-to-radio clone cable, OPC478 PC RS232C serial cable, OPC478U PC USB serial cable, OPC782 Plug adapter cable, SP13 Earphone



TRIBAND HT

IC-T90A 6M/2M/70cm FM Handheld - Palm-sized, simple to operate. Designed with a die-cast aluminum chassis. MOS-FET technology, along with a 7.4V Lithium-ion battery, produces a full 5W output. Wideband RX 495 kHz to 999.990 MHz (cell blocked), in AM, FM or WFM modes. Pre-programmed with TV frequencies. Unique WX

Alert feature constantly checks local active weather station for alert tone. If alert occurs, the HT automatically switches to the WX channel and beeps. 555 alphanumeric memories (500 regular, 50 scan edges, and 5 call channels). Dynamic Memory Scan (choose any of 500 memories to scan), and with soft partitioning, setting up a maximum of 18 banks. Over-sized buttons for easy operation. Optional PC software for memory, alphanumeric, scan list and parameter customizing.

Dim: 2.28" w x 3.44" h x 1.16" d; 8.5 oz. **\$249.99**

Available Accessories

AD92SMA SMA - BNC adapter, BC139 Desk rapid charger, BP216 AA battery case, BP217 7.4V 1300mAh lith-ion, CP19R Cigarette cable with filter, CST90A Windows cloning software, HM128 Earphone + mic, HM131 Speaker/mic/earphone jack/clip, HM46 Slim-line speaker mic, HM75A Remote control mic, HS85 Headset with VOX, HS94 Earpiece headset, LC152A Carrying case, MB83 Swivel belt clip, OPC474 Radio-to-radio clone cable, OPC478 PC RS232C cable, OPC478U PC USB cable, SP13 Earphone, VS1 VOX-PTT unit for HS94



TS-480HX HF/6M All-Mode Transceiver Covers amateur bands 1.8 to 50 MHz, including 60M with continuous receive from 500 kHz to 60 MHz. Power: Up to 200W output on HF (requires two PS-53s or equivalent), 100W on 6M. AF DSP provides Digital noise limiter; Beat cancel; Noise Reduction; TX/RX EQ; AF filters; Transmit passband filter, Speech processor. Separate LCD control panel with speaker positions up to 13 ft. from main unit; Twin cooling fans; Full range of CW features; Auto tune; Memory name function; Multiple scan functions; Keypad frequency entry; CTCSS; Wide/narrow deviation; 1750 Hz tone; Noise blanker; Cross-band repeater (with TM-D700A); Auto power off and time-out timer; Optional IF filters available; PSK31 compatible; Packet cluster tune (with TM-D700A); PC-based control. Dim: 7.06" w x 2.38" h x 10.19" d (main unit), 7.06" w x 2.94" h x 1.44" d (panel); 7.05 lbs. (main); 1.1 lbs. (panel)..... **\$1094.99**

TS-480SAT - 100W version of the HX. Includes built-in automatic antenna tuner **\$989.99**

Available Accessories

E30348905 6' DC cable, HS6 Lightweight headphones, MB480 Carry bracket w/handle, MC435 8-pin hand mic, MC47 Multi function 8-pin hand mic, MC60A 8-pin amp desk mic, MJ88 Modular/8-pin adapter, PG20 22' DC cable, PG4Z 13' panel extension kit, PS53 Heavy-duty power supply, S03 TCXO unit, SP23 Speaker, SP50B Mobile speaker, VG51 Voice guide/storage unit, YF107C 500 Hz CW filter, YF107CN 270 Hz CW filter, YF107SN 1.8kHz SSB filter

KENWOOD

HF RADIOS



TS-570D(G) HF Transceiver - Covers 160-10M with 500 kHz to 30 MHz receive. Variable output: 5-100W SSB/CW/FM and FSK (AM 25W); 100 memories with multiple functions; Large amber-colored backlit LCD display; 10-key direct entry; 46 easy to use menu functions; Multiple scanning functions; 16-bit AF-stage DSP VOX; XIT/RT; IF shift; Noise blanker; All mode squelch; TX audio shaping; Built-in electronic keyer; Full and semi break-in CW; CW message memory; CW auto tune; 38 tone CTCSS encoder and 1750 Hz tone; TX audio shaping; Packet and FSK; PC control option; Two antenna connectors; Packet port; Built-in automatic antenna tuner; Requires 13.8V DC @ 20.5A. Dim: 10.6" w x 3.7" h x 10.6" d; 15 lbs .. **\$1094.99**

TS-570S(G) HF+6M Transceiver - Same as the TS-570D(G), but covers 160-10M plus 6M. 0.5-60 MHz general coverage receiver..... **\$1079.99**

Available Accessories

DRU3A Digital recording unit, HS5 Deluxe headphones, HS6 Lightweight headphones, KPS15 23A switching power supply, MB430 Mobile mounting bracket, MC435 8-pin hand mic, MC60A 8-pin amp desk mic, MC90 2-head DSP desk mic, PG2Y 13' DC cable, PG2Z 6.5' heavy-duty DC cable, PS53 Heavy-duty power supply, S02 TCXO unit, SP23 Speaker, SP50B External mobile speaker, VS3 Voice synthesizer, YK88S1 1.8 kHz SSB filter



TS-2000 HF/VHF/UHF All Mode Transceiver Offers 3 platforms: (1) A traditional transceiver with full function front panel (TS-2000), (2) the high-tech looking "silver box" version with computer-controlled software and no controls (TS-B2000), or (3) TS-2000 with 1.2 GHz (TS-2000X). 100W output (HF/6M/2M), 50W (70cm), 10W (optional 1.2 GHz). Dual RX; True IF/stage DSP on main band, AF stage DSP on sub-band; Digital filtering; Satellite ready, with transverter frequency display; Cross band repeat; Built-in auto tuner HF/6M; Built-in TNC and RS-232 for computer control; Built-in TCXO (.5PPM); CTCSS/DCS en/decode; Electronic memory keyer; Backlit front key panel; 5+1 antenna ports - 2 for HF and 6M, 1 each for 2M, 70cm, 1.2 GHz and HF RX..... **\$1614.99**

TS-B2000 HF/VHF/UHF All Mode Transceiver Same as the TS-2000 but does not have front panel controls or LCD display. Includes PC control software..... **\$1399.99**

TS-2000X HF/VHF/UHF All Mode Transceiver TS-2000 w/1.2 GHz..... **\$2074.99**

Available Accessories

ARCP2000 PC/radio control software (included with B2000 model), DRU3A Digital recording unit, HS5 Deluxe headphones, HS6 Lightweight headphones, KPS15 23A switching power supply, MB430 Mobile mounting bracket, MC435 8-pin hand mic, MC57DM Lit TTP mic, MC60A 8-pin amp desk mic, MC90 2-head DSP desk mic, PG2Y 13' DC cable, PG2Z DC cable, PS53 Heavy-duty supply, RC2000 Remote face plate mobile kit, SP23 Speaker, VS3 Voice synthesizer

© Price after instant coupon, coupons may expire 4/30/07. Please call/web for current price and promotions.

KENWOOD POPULAR ACCESSORIES



MC-60A Desktop Microphone - Excellent performance when used with any KENWOOD transceiver. The zinc die-cast base offers great stability and is complete with a feather-touch PTT switch, an impedance selector switch, built-in preamplifier and 6 ft. coiled cord with 8-pin plug. Requires two "AA" batteries..... **\$149.99**

MC-90 DSP Compatible Desk Microphone - It is supplied with two interchangeable heads. One has a flat response for good overall performance, while the other offers exceptional clarity and a characteristic that peaks at around 3 kHz, making it ideal for DX. There is a 3-position switch on the base to tailor the low-range cutoff frequency to suit the operator. Includes 6 ft. coiled cord with 8-pin plug..... **\$249.99**

HS-5 Deluxe Headphones

Specifically designed for communications use. Natural sound and low pressure permits long hours of fatigue free listening. Replace the sponge-type earpads with soft vinyl leather pads to increase sound by about 10dB while sealing out noise. Includes both types of earpads and 6 ft. coiled cord with 1/4 in. phone plug. Response: 150-4000Hz, 8 ohms. Weight: 13 oz..... **\$79.99**



HS-6

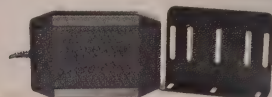
Lightweight Headphones
Response: 100-10,000 Hz
Impedance: 12.5 ohms;
6 ft. straight cord with 1/4 in. phone plug. Weighs just 4 oz..... **\$59.99**



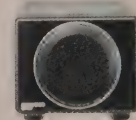
LF-30A Low-Pass Filter - Use with 160-10M transceivers to suppress TVI causing harmonics. Provides a 30 MHz cutoff and >90dB attenuation from 90-300 MHz. Power rating: 1000W SSB. Insertion loss: <0.5dB @ 30 MHz. Dim: 9.6" w x 2" h x 1.5" d; 1.2 lbs..... **\$64.99**



PS-53 Heavy-Duty Power Supply - Provides 13.8V DC @ 20.5 Amps cont. or 22.5 Amps @ 25% duty cycle. Has a tilt-back and rear output terminals. Dim: 6.8" w x 4.4" h x 12.6" d; 15.2 lbs..... **\$269.99**



SP-50B Communications Speaker - Compact, designed for mobile operation. The metal enclosure houses a high quality 2.5 in. speaker rated to 1.5 watts with a 300-4000Hz frequency response. Dim: 4.8" w x 3.2" h x 1.4" d; 10 oz..... **\$55.99**



SP-23 Base Speaker - This versatile 8 ohm speaker features a metal cabinet with flip-out tilt bar. It houses a 3 in. speaker rated at 1W with a 300-5000 Hz frequency response. Includes a 3 ft cable. Dim: 4.8" w x 3.75" h x 9.25" d; 2.8 lbs..... **\$89.99**

KENWOOD



SINGLE BAND MOBILE

TM-271A 2M FM Transceiver – Delivers powerful mobile performance with 60W output and other great features such as multiple scan functions and memory names. Covers 144-148 MHz transmit with 136-174 MHz receive. N.O.A.A. Weather band reception with alert tone; FM Wide/Narrow; 200 memories; MIL-STD compliant; High quality audio; Illuminated keys and a large LCD with adjustable Green backlighting; CTCSS, DCS and 1750 Hz tone burst; Auto repeater offset **\$169.99**

Available Accessories:

MJ88 Modular 8-pin adapter, PG2N DC cable, PG5D PC interface cable, SP50B External mobile speaker

DUAL BAND MOBILE

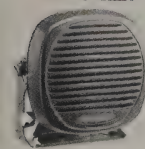


TM-G707A 144/440 MHz FM Dual Band – Extraordinarily user-friendly with extra-large detachable control panel. 144-148, 430-450 MHz transmit; 118-174, 410-524 MHz receive; 50/10/SW (VHF); 35/10/SW (UHF); Detachable control panel with high-visibility amber LCD display; 180 multi-function alphanumeric memories; Multi-scan functions; Priority scan function; Built-in CCTSS encoder and decoder; 1200/9600bps packet ready; Cross band repeater access; Selectable frequency step; 5-meter squelch; Time-out timer; Dimmer control; Auto power-off; Multi-function backlit mic. with DTMF. Dim: 5.5" w x 1.5" h x 7.4" d; 2.7 lbs... **C/O \$279.99**

Available Accessories:

DFK3C 9' cable kit, DFK4C 13' cable kit, DFK7C Deluxe 23' remote kit, MB201 Mobile bracket, MJ88 Modular 8-pin adapter, PG2N DC cable, PG4S PC interface cable, PG5A Packet data cable, SP50B External mobile speaker, VS3 Voice synthesizer

KENWOOD



KES-5 Mobile speaker

Heavy duty, meets Military Standards 810C, D, E, F for low pressure, high and low temperature, temperature shock, solar radiation, humidity, salt fog, dust, vibration and shock. This 4 ohm speaker handles 40W of power, making great for emergency and other vehicles requiring loud and clear audio. Includes a metal bracket to support the speaker from below or above, and attached cable without a connector so you can install your own. Dim: 5.1" w x 5.1" h x 3" d; 1.8 lbs..... **\$59.99**

DUAL BAND MOBILE



TM-V708A 144/440 MHz Dual Band Transceiver It's similar to the popular TM-D700A except that it does not have APRS firmware, TNC or computer hookups. Dual Display; Power: (144-148) 50W & (430-450) 35W; RX: 136-175, 300-524 & 800-1300 MHz (cell blkd); 200 Alpha Memories; Auto repeater Offset; Automatic Simplex Checker; Visual Band Scope; DTSS Selective Call, PL Decode/Encode; Remote Head; DTMF Backlit Hand Mic. Dim: 5.5" w x 1.5" h x 7.6" d; 3 lbs..... **\$399.99**

Available Accessories:

MB201 Mobile bracket, MJ88 Modular 8-pin adapter, PG2N DC cable, PG4X 13' extension cable kit, PG5A Packet data cable, SP50B Ext. mobile speaker, VS3 Voice synthesizer

We want your TRADE-IN!

Simply...

Call any AES store and tell us what you have to trade

Sorry, no Handhelds

DUAL BAND MOBILE



TM-D700A 144/440 MHz Dual Band Data Communicator – Fully equipped to complement SSTV, GPS and APRS® operations. Covers: 144-148, 430-450 MHz transmit with 118-148, 136-175, 300-524 & 800-1300 MHz (cellular blocked) wide band receive. Power: 50/10/SW (VHF); 35/10/SW (UHF); Detachable control panel with large backlit LCD and multi-function key display; Backlit microphone with alphanumeric input; Easy-to-use menu system; Advanced APRS-99 features; Built-in 1200/9600bps TNC (AX.25); DX cluster monitoring; Dual receive on same band for voice and data; 200 alphanumeric memories; 2 call channels; 10 programmable memory scan banks; Built-in CTCSS and 1750 tone burst; Digital Code Squelch (DCS); DTMF memory; Cross band and fixed band repeater operation; DCS code scan, tone, CTCSS scan; 10-channel program scan; Visual band scope; 13.8VDC @ 11.5A. Dim: 5.5" w x 2.4" h x 1.2" d; 0.4 lbs. (control); 5.5" w x 1.2" h x 7" d; 2.6 lbs. (main) **\$489.99**

Available Accessories:

MB201 Mobile bracket, MJ88 Modular 8-pin adapter, PG2N DC cable, PG4X 13' extension cable kit, PG5A Packet data cable, SP50B External mobile speaker, VS3 Voice synthesizer

© Price after instant coupon, coupons may expire 4/30/07. Please call/web for current price and promotions.

AvMap



KENWOOD Transceivers NOT INCLUDED

G4T Car Navigator – Smart driving assistance for business or leisure trips throughout USA and Canada. The 2 GB Secure Digital is preloaded with USA Tele Atlas high coverage cartography which can be viewed in 2D or 3D mode. The G4T is practical and easy to use with built-in Li-ion rechargeable battery, Sirf Star 3 GPS antenna and IR remote control with full alphanumeric keyboard. Consult the map safely thanks to the large and ultra-bright 5 in. LCD TFT display. Video in/Video out – connect your laptop, camera or DVD player to the audio-video input, and you can view pictures and movies on the screen.

Kenwood & AvMap - the Ultimate APRS® Combination

Built with APRS® in mind, the Avmap G4T with supplied interface cable plugs directly into the Kenwood TM-D700A or TH-D7A(G) TNC radios. This is the ultimate APRS solution out of the box. With built in moving target display, you can see moving APRS® stations (triangle) and fixed stations (circles). Millions of Points of Interest, address look up and many other features make the G4T a perfect personal navigator. Includes mounting options for the dash or windshield, audio/video in cable, IR remote control, power cable, quick start guide, and operators manual. Dim: 5.4" h x 3.9" h x 1.3" d; 13.76 oz..... **\$749.99**

Price Guide
Used / Demo

Ham Radios

Ham Radio
Accessories

Antenna

Antenna
Accessories

Publications

Other
Radios

Weather
& GPS

Audio / Video
& Tools

AES
Information

Price Guide
Used / Demo
Ham Radios
Ham Radio
Accessories
Antennas
Antenna
Accessories
Publications
Other
Radios
Weather
& GPS
Audio / Video
Tools
Information

KENWOOD

SINGLE BAND HANDHELD



TH-K2AT 2M FM HT
5W RF output; 100 memories with 6-character names; Large LCD panel and backlit keys; Internal VOX; Weather alert and receive (US only); Automatic simplex checker; Auto repeater offset; Multiple scanning functions; Priority scan; Built-in 42-tone CTCSS and 104-code DCS; DTMF encode; Memory channel transfer; Time-out timer; Auto power off; Meets MIL-STD-810 standards for resistance to rain, vibration, shock & humidity; PC programming; Charges 3x faster than previous models with its high-capacity NiMH battery.

Dim: 5" h x 2.4" w x 1.1" d; 12.5 oz. **\$139.99**

Available Accessories

BT14 Six "AA" battery holder, EMC3 Lapel clip mic/earphone PC, HMC3 VOX/boom mic headset, KHS21 Boom mic headset, KSC24 Rapid charger, PB43N 7.2V 1100mAh NiMH battery, PG2W DC cable, PG3J Cigarette cord with filter, PG4Y 9 pin programming cable, SC54 Soft case, SMC32 Mini right angle speaker mic, SMC33 Speaker mic with remote control, SMC34 Speaker mic with volume function keys, WR2 Water resistant bag

AvMap
Ready

DUAL BAND HANDHELD

TH-D7A(G) 2M/440 MHz

Dual Band Data Communicator - Equipped with a built-in TNC for simple packet operation or with a GPS as a APRS* station that reports position, speed and heading as well as calculation of distance to destination. Use for APRS* messaging to send up to 45 characters without a PC. Power: 5.5W output @ 13.6V DC; Coverage: (2M) TX: 144-148 MHz, RX: 118-174 MHz, (440 MHz) TX: 430-450 MHz, RX: 400-480 MHz. 200 memories; Station list stores data in up to 40 memory

channels; 1200 & 9600 baud TNC; Grid square locator display; Dual receive on same band for voice and data (VHF only); PC programmable for frequency and name (PG-4W required); 16 backlit keys; CTCSS encode/decode; MIL-SPEC 810C/D/E water resistant; 10 channel DTMF phone and auto patch memories; TM-V7A and TM-742D DTMF remote; Altitude; Time; 3-position memory; Audible emergency signal; Auto message response; Data band settings.

Dim: 4.7" h x 2.3" w x 1.5" d; 12 oz. **\$324.99**

Available Accessories

BC19 Rapid charger, BT11 Four "AA" battery holder, EMC3 Lapel clip mic/earphone PC, HMC3 VOX/boom mic headset, J29063113 Extra belt clip, PB39 9.6V 600mAh 5W battery, PG2W DC cable, PG3J Cigarette cord with filter, PG4W PC software and cable, SC47B Black soft case, SC470R Orange soft case, SMC32 Mini right angle speaker mic, SMC33 Speaker mic with remote control, SMC34 Speaker mic with volume function keys, WR2 Water resistant bag

TRIBAND HT



TH-F6A FM Triband HT
Covers 144, 220 and 440 MHz plus wideband receive 0.1-1300 MHz (cellular blocked); includes AM Aircraft receive and weather. Dual channel receive capability; FM/FM-W/FM-N/AM plus SSB/CW receive modes; Ferrite bar antenna for receiving AM broadcast; 435 memories (8 groups of 50 channels); 3 call channels plus 20 for programmable scan; Multiple scanning functions; 5W output with 7.4V lithium-ion battery; Extended operation; 16-key backlit pad plus multi-scroll key; Built-in charging circuitry, battery recharges while unit operates from a DC supply; Selectable squelch configuration; Memory shift; Key lock; Built-in CTCSS encode/decode (42 subtone frequencies) DCS (104 codes), 1750Hz tone burst; Compatible with external 1200/9600bps TNC; Large 8-character alphanumeric display; Automatic simplex checker; Wireless remote control function; ATT (attenuator) on/off; Battery indicator; Internal VOX; MCP programming software via www.kenwood.net (using PG-4Y cable); Meets MIL-STD 810 C/D/E for resistance to vibration, shock and light rain. Comes with belt hook, flexible SMA antenna, hand strap, PB-42L 7.4V 1550mAh lithium-ion battery pack, AC adapter.

Dim: 3.4" h x 2.3" w x 1.2" d; 8.8 oz. **\$329.99**

Available Accessories

BT13 AA battery case, EMC3 Lapel clip mic/earphone PC, HMC3 VOX/boom mic headset, KHS21 Boom mic headset, PB42L 7.4V 1550mAh lithium-ion battery, PG2W DC cable, PG3J Cigarette cord with filter, PG4Y 9 pin programming cable, SC51 Softcase with swivel belt clip, SMC32 Mini right angle speaker mic, SMC33 Speaker mic with remote control, SMC34 Speaker mic with volume function keys, WR2 Water resistant bag

POPULAR ACCESSORIES



- SMC-34** Speaker mic with 3 function keys & volume control **\$32.99**
- SMC-33** Remote control speaker mic **\$65.99**
- SMC-32** Speaker microphone **\$52.99**
- EMC-3** Clip microphone w/earphone **\$24.99**
- HMC-3** Head set (VOX & PTT) **\$48.99**

© Price after instant coupon, coupons may expire 4/30/07. Please call/web for current price and promotions.



1957

It seems like only yesterday. That's the year AES was born in a small Radio & TV parts store in Fond du Lac, Wisconsin.

How did it all start?

Read part of a 50 year old magazine article on the next page. Space was limited so we put the entire two-page article on the AES website.



Keeping you informed!

Over the years, we have produced nearly 60 Ham Radio catalogs, countless periodic flyers and promotional pieces ... all sent out without charge to our customers.

We support the various Ham Radio Magazines with advertising pages, and we always keep our web site up-to-date.

For the past 13 years we have held our annual SUPERFEST event, a "Dayton-style" Hamfest, all inside at our Milwaukee store.

Typically, there are over 35 major manufacturers attending with their hamfest displays who talk directly with customers and promote their products.

We offer table space to area clubs and organizations to promote their programs and solicit new members. This year we had over thirty-five.

We have available forums on Ham Radio topics by industry experts. Over the years we have presented over 70 notable speakers, including ARRL Presidents.

The Future

Hopefully, AES will be around for another 50 years, and with your help, we will.



Here we see Terry Stermann, W9DIA demonstrating some of the ham equipment at Harris Radio Corporation in Fond du Lac, WI • 1957

HE'S 18 YEARS OLD... AND A SUCCESSFUL JOBBER!

"And now, at the age of 18, I spend from seven in the morning until five in the afternoon, Monday through Friday at the Milwaukee School of Engineering. From seven until nine in the evenings, I am at my store in Milwaukee. On Friday afternoons, I return to Fond du Lac to sell amateur equipment at Harris Radio Corporation, my father's store. I'm there Friday evenings, and all day Saturdays until five. Saturday night, I have "off" to relax. Sundays, I am usually attending a Ham fest, or if necessary, down at my own store getting caught up on my work."

In his own words, Terry Stermann tells a success story that many older men would be proud of.

Showing an early natural interest in radio and electronics, Terry was encouraged by his father, jobber Harris Stermann, head of Harris Radio Corporation in Fond du Lac, Wisconsin. A review of the past five years shows them to be filled with activities which make his present financial independence at the age of 18 completely reasonable.

Here is his story:

"I first became interested in electronics in 1952 when I was thirteen

We're very proud to publish this story about 18 year old Terry Stermann because it dramatizes the quiet ability, integrity and wholesome characteristics of millions of today's level-headed teen agers. And, because it is an amazing chronicle of a natural businessman who, we are firmly convinced, is destined to be a leading figure in our industry in the years to come. We know every person in the entire parts jobbing industry will share our own satisfaction in welcoming Terry to the ranks of successful parts distributors.

•

years old. At this age I began building my first shock machine. In 1953, after much studying, I passed my Novice examination and received my call, WN9DIA." At that point, all interest in junior high school football faded away and Terry's hobby had him hooked. On April 4, 1954 he applied for his general class license in Chicago and passed the required exams for W9DIA.

With this solid accomplishment behind him, Terry began to meet other hams who were just as enthusiastic about their hobby as he was. He began checking into many of the nets around Wisconsin. Each night (presumably after the home-

work was finished) he would check into the Badger Emergency Net, and soon became acquainted with many of his fellow hams in the state. At the Ham fests, he met these "voices" in person and much of their time was spent in discussions of equipment, performance of various components, their prices and sources of supply.

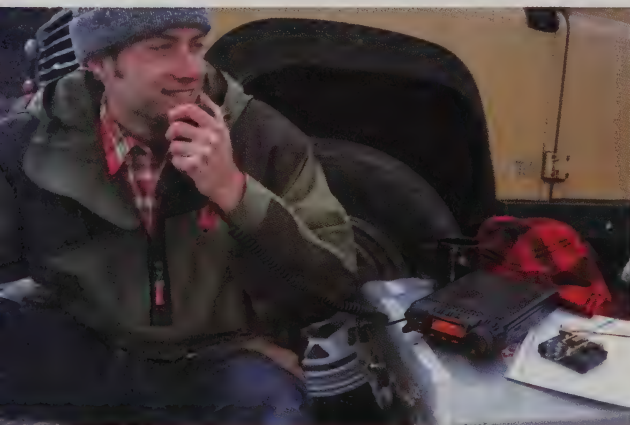
"This was when I first realized that there was an opening for a good ham distributor in the state of Wisconsin," says Terry. And the boy who had been sweeping up and washing the windows in his father's jobbing establishing, Harris Radio Corporation, now began putting some pressure on the boss.

"Why can't we put in some lines of amateur equipment?" asked the blond chubby-faced boy of his father. Though not yielding at once, Harris Stermann finally agreed to stock some items of amateur equipment on condition that Terry would do all the ordering and selling. This was definitely the end of the football season for Terry. That first year he was sending out regular bulletins to a mailing list of over 300 which he built up through his contacts, and far from discouraging him, the work *

* Read the entire article on the AES web site www.aesham.com

Click HISTORY under LINKS

The Hottest Field Gear Anywhere!



HF/VHF/UHF Portable Operation
Just Got a Lot More Powerful!

FT-897D **TCXO** **DSP** **60 m Band**

HF/50/144/430 MHz
100 W All Mode Transceiver
(144 MHz 50 W/430 MHz 20 W)



HF/VHF/UHF Multimode Mobile Transceiver,
now Including Built-in DSP

FT-857D **DSP** **60 m Band**

HF/50/144/430 MHz
100 W All Mode Transceiver
(144 MHz 50 W/430 MHz 20 W)

Automatic Matching for
FT-897/857 Series Transceivers



FC-40
Automatic-Matching
200-Memory
Antenna Tuner
(160 m ~ 6 m Band)

WATERPROOF

Mobile Auto-Resonating 7-430 MHz for
FT-897/857 Series Transceivers

ATAS-120A
Active Tuning Antenna System
(no separate tuner required)



VHF/UHF
Base RadialKit
ATBK-100 for
ATAS-120A.



REAL PERFORMANCE,
REALLY PORTABLE

FT-817ND
HF/50/144/430 MHz
5 W All Mode Transceiver
(AM 1.5 W)

60 m Band

ATAS-25
Manually-Tuned Portable Antenna



For the latest Yaesu news, visit us on the Internet:
<http://www.vertexstandard.com>

Specifications subject to change without notice. Some accessories and/or options may be standard in certain areas. Frequency coverage may differ in some countries. Check with your local Yaesu Dealer for specific details.

YAESU
Choice of the World's top DXers™

Vertex Standard
US Headquarters
10900 Walker Street
Cypress, CA 90630 (714)827-7600

Free
Separation
Kit!

FT-857D Ultra-compact, HF/VHF/UHF 100W All-Mode Mobile - Blends leading-edge technologies of the FT-897 and MARK-V into the smallest full-power HF multi-mode. Now includes 60M! Unique ergonomics deliver unmatched ease of use with an ultra-compact design featuring a large, main tuning dial. Covers HF, 50, 144 and 430 MHz, with 0.1-56, 76-108, 118-164 and 430-470 MHz receive. Power: 100W HF/6M, 50W 2M, 20W 70cm. 200 memories (10 groups); Enhanced performance with installed DSP board; Large, multi-color dot matrix display; IF shift; Noise blanker; IPO; AGC; CTCSS/DCS; Auto repeater shift; SmartSearch™; Spectrum scope; ARTS™; Optional remote-head operation and remote control mic. Dim: 6.1" w x 2.0" h x 9.2" d; 4.6 lbs **Free YSK-857 © \$679.99**

Available Accessories:

BET YAE TUNECON Better RF, W4R ANTENNABOSS W4RT interface, W4R OBPSD W4RT Speech compressor, W4R OPFCW W4RT 500 Hz Collins, W4R OPSSB W4RT 2.3 kHz Collins, ADMS4B Programming Software, ATAS120 HF/6/2/430 antenna, ATAS25 40/20/15/10/6/2/430 antenna, ATBK100 ATAS100 base kit, CT39 Packet cable, CT58 Band data cable, CT62 Cat interface cable, EDC20 DC cord, FC30 External antenna tuner, FC40 Auto tuner, FP1023 23A switching power supply, FP1030A 25A power supply with meters, MD100A8X Desk mic with tone control, MD200A8X Deluxe high fidelity desk microphone, MH36E8J TTP microphone, MH59A8J Remote control TTP microphone, MSL100 Mobile speaker, TCX09 TCXO unit (0.5ppm), I9023225 Extra DC cord, YA007FG FG whip w/mount, YF122C 500 Hz Collins CW filter, YF122CN 300 Hz Collins CW filter, YF122S 2.3 kHz Collins SSB filter, YH775TA Stereo headphones, YSK857 Separation kit



FT-897D HF/VHF/UHF Multi-Mode Portable/Base - Self-contained, can operate without an external power supply. Using the optional 13.2V @ 4500mAh NiMH internal battery pack, it operates at 20W on all bands except 430 MHz. Two batteries may be installed simultaneously giving up to 8 hours of use. Power with external 13.8V DC is 100W (HF/50 MHz), 50W (144 MHz) and 20W (430 MHz), all adjustable down to 5 Watts; Includes 60 meters; SSB/CW/AM/FM and digital modes; Large-diameter main tuning dial; Built-in keyer, DSP and TCXO; Selectable tuning steps (2 kHz / 4 kHz); Easy receiver offset tuning; Scrolling front panel; Multi-function keys with instant "hot key"; RS-232 port; Aluminum, die-cast chassis.

Dim: 7.9" w x 3.14" h x 10.3" d; 8.6 lbs. © **\$799.99**

Available Accessories:

Uses the same accessories as the FT-857D above, but excluding: CT58, FP1023, FP1030A, TCX09 & YSK857. Additional accessories for FT-897D: CD24 4-hr charge adapter; FNB78, FNB78 4.5AH NiMH battery, FP30 Internal PS, MMB80 Mobile bracket, PA26B 110VAC charger; CD-24

© Price after instant coupon, coupons and freebies may expire 4/30/07. Please call/web for current price and promotions.

NEW
from
YAesu

New! FT-450 All Mode Transceiver

Covers HF + 50 MHz with 100W output, all mode, 500 memory channels, DSP. Loaded with many more outstanding Yaesu features. Dim: 9" w x 3.3" h x 8.5" d; 7.9 lb. Price to be determined. **CALL/WEB**
Technical specs subject to change without notice. The FT-450 has not been approved by the FCC. This device may not be sold or leased, or offered for sale or lease, until FCC approval has been obtained.



FT-817ND HF/VHF/UHF Backpack Transceiver Self-contained and low power for portability. Covers 160-10M, 60M, 50 MHz, 144 MHz, 430-450 MHz, plus Alaska emergency channel (5167.5 kHz) Receive: 100 kHz - 56 MHz, 76-154 MHz, 420-470 MHz, plus AM aircraft band. Power: 5W SSB/CW/FM (13.8V external DC), 1.5W AM, 2.5W SSB/CW/FM (9.6V NiCad pack) or 8 AA's (includes internal alkaline cells), 0.7W AM, up to 5W SSB/CW/FM. Dual VFOs; 200 alpha memories; SmartSearch™ memory loading. Modes: USB, LSB, CW, AM, FM, W-FM, AFSK, packet; RTTY, PSK31-U, PSK31-L, user-defined USB/LSB. Two-color, multi-function LCD meters ALC, power output, SWR, modulation. RF gain/squelch control; Noise blanker; Attenuator; Split capability, IF shift, and RTT; Electronic keyer; VOX; Auto repeater shift; CTCSS/DCS; Front/rear antenna jacks; PC control capability; 1400mAh NiMH battery and charger. Dim: 5.3" w x 1.5" h x 6.5" d; 2.6 lbs..... © **\$579.99**

Available Accessories:

W4R OB817/NDIY W4RT CW & SSB Collins Filter, W4R OBPSD W4RT Speech compressor, W4R OPFCW W4RT 500 Hz Collins, W4R OPSSB W4RT 2.3 kHz Collins, ADMS4A Programming software, ATAS25 40/20/15/10/6/2/430 MHz antenna, CSC83 Soft case, CT39 Packet cable, CT62 Cat interface cable, EDC6 DC cord, FNB72 9.6V 1000mAh NiCad, FNB85 9.6V 1400mAh NiMH, MH36E8J TTP mic, MSL100 Mobile speaker, NC72B Wall charger, TCX09 TCXO unit, YA007FG FG whip w/mount, YF122C 500 Hz Collins CW filter, YF122CN 300 Hz Collins CW filter, YF122S 2.3 kHz Collins SSB filter

W4RT ACCESSORIES

One-Plug Filters

Direct plug-in CW & SSB filters for Yaesu FT-817, 857 & 897 radios. The 500-Hz CW filter contains a 7-pole Collins Mechanical Filter identical to the Yaesu YF-122C. The 2.3-kHz SSB filter contains a 10-pole Collins Mechanical Filter identical to the Yaesu YF-122S. Each filter contains the coding for proper recognition.

OPF-CW \$99.99 / OPF-SSB \$124.99

Speech Compressor

OBP-STD One BIG Punch - For the MH-31 mic. used with the FT-817, 847, 857 & 897. An AF-based compressor configured to provide a 5dB increase in talk power with good audio quality. The unit can be mounted inside the MH-31, requires no additional electrical power, and turns on/off with the MH-31's Tone switch ... **\$49.99**

OBP-UNIV - The One BIG Punch for microphones having 7-12V DC available, like the Yaesu MH-36 used with the FT-100/D or the Icom HM-103 with the IC-706 radios. **\$49.99**



YAesu



FT-2000

FT-2000 Brand new Competition-Grade HF/6M transceiver - Covers 160-6M (TX) and 30 kHz-60MHz (RX), all modes. Power output: 100W. Features: Built-in automatic antenna tuner; DSP-based variable IF Bandwidth, IF shift and Contour Tuning; First IF Roofing Filters (3 kHz/6 kHz/15 kHz included); Dual In-band Receive; Receiver Front End includes VRF (variable RF Tuning) Preselector that works in conjunction with a bank of fixed bandpass filters; External display port with optional DMU-2000 unit for viewing of RF scope, Audio scope and Oscilloscope displays.

Dim: 16" w x 5.3" h x 14" d; 33 lbs **\$2699.99**

FT-2000D - Same as the FT-2000 except RF output is 200W and the power supply is external instead of internal.

FP-2000 power supply is included..... **\$3499.99**

Available Accessories

DMU2000 Data management unit, FH2 Remote Keypad, MD100A8X Desk microphone w/tone control, MD200A8X Dlx hi-fidelity desk microphone, MH31B8 Extra hand microphone, MTU160 U-tuning kit A; 160M, MTU30/20 U-tuning kit C; 30/20M, MTU80/40 U-tuning kit B; 80/40M, SP2000 External speaker w/audio filters, YF122C 500Hz Collins CW filter, YF122CN 300Hz Collins CW filter, YH775TA Stereo headphones

HIGH-END HF/6M BASE STATION



FTDX-9000D

FTDX-9000 Series - Covers HF and 6 meters; available in three configurations including 200 and 400W versions. Class-A operation at 100W (400W version or 75W with the 200W version). The 200W versions feature a built-in power supply. There is an included external power supply for the 400W version. Large, precision analog meters and a 6.5 in. TFT display (FTDX-9000D) gives unprecedented information and access to dozens of features and settings. An ultra-quiet 400 MHz high resolution direct digital synthesizer combines with the state-of-the-art receiver design to yield a typical two-tone dynamic range of >110 dB along with a 3rd-order intercept point in excess of +40 dBm. The fully-loaded FTDX-9000D includes three permeability-tuned, motor-driven "u" RF Tuning modules with Q>300, for ultra-sharp RF selectivity. IF DSP speech processing and microphone equalization and monitor for voice data and CW modes. There is also a low level transverter output port. A flash memory port and keyboard connector ensure that your station will evolve as the FTDX-9000 does.

FTDX-9000D 200W, TFT display.... **\$11499.99**

FTDX-9000MP 400W, no TFT..... **\$12049.99**

FTDX-9000 Contest 200W, no TFT **\$5699.99**

(all FTDX-9000 radios are drop shipped from Yaesu)

Available Accessories

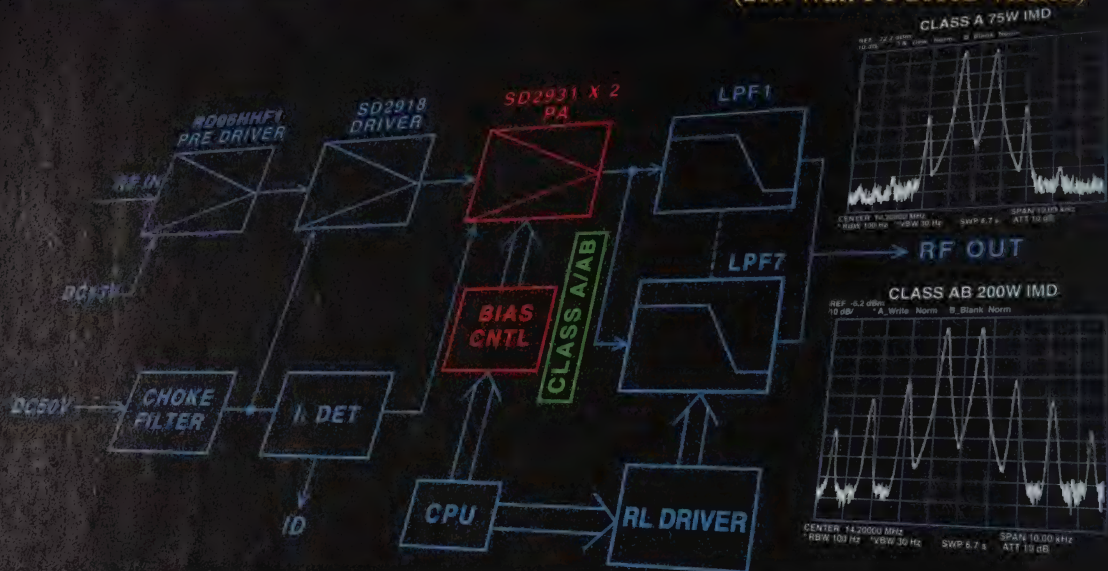
MD100A8X Desk microphone w/tone control, MD200A8X Dlx hi-fidelity desk microphone, MH31B8 Extra hand microphone, YH775TA Stereo headphones
FTDX-9000D & FTDX-9000 Contest only:
SP9000 Ext. dual speakers w/filters (FTDX-9000MP comes with similar dual speaker FFS-9000H)

The radio... YAESU

Choice of the World's top DXers

Ultra-low Distortion Class-A Final Amplifier

(200-Watt FT-2000D version)



The 200-Watt FT-2000D includes provision for operation in "Class-A" mode at 75 Watts of power output. It utilizes high bias current to produce very low transmitter Intermodulation products. The 3rd-order IMD products are typically suppressed 45 dB or better. The 5th and higher-order IMD is typically suppressed 70 dB or more. You may adjust the bias level between Classes A and AB to meet the demands of high ambient temperature in your station, and the long duty cycles associated with contest or DX-pedition use.

The FT-2000D (200-Watt version) utilizes push-pull SD2931 MOS FET devices, operating at 50 Volts. The user-adjustable bias control permits adjustment for optimum suppression of Intermodulation distortion products. The elaborate heat sink design includes a combination of aluminum and 3mm thick high-conductivity copper plate. The total heat sink capacity of 2720 cm will ensure many years of reliable operation of this 200-Watt powerhouse.



HF/50 MHz Transceiver

FT-2000D 200 W Version (External Power Supply)

FT-2000 100 W Version (Internal Power Supply)

For the latest Yaesu news, visit us on the Internet:
<http://www.vertexstandard.com>

Specifications subject to change without notice. Some accessories and/or options may be standard in some areas. Frequency coverage may differ in some countries. Check with your local Yaesu dealer for specific details.

YAESU
Choice of the World's top DXers
Vertex Standard
US Headquarters
10900 Walker Street
Cypress, CA 90630 (714)827-7600

The radio... FT DX 9000

DISTINGUISHED

Experience
400 imposing Watts,
and call with confidence!



The FT DX 9000MP's Power Amplifier stage utilizes SD2931 MOS FET devices in a parallel, push-pull configuration, a conservative design that permits ultra-clean Class-A operation at a full 100 Watts of output, with continuous bias adjustment between Classes A and AB available on the front panel. If you have a professional microphone with a balanced "Cannon" (XLR) connector, you may connect it directly to the matching connector on the front panel, then use our exclusive three-band Parametric Microphone Equalizer to adjust the center frequency, bandwidth, and equalizer gain in the bass, mid-range, and treble frequency ranges.

YAESU engineers take signal quality seriously, because we know you do, too!

HF/50 MHz Transceiver FT DX 9000MP 400 W Special Order Version

Two Pairs of Meters, plus LCD Window; Data Management Unit and Flash Memory Slot Built In; Main/Sub Receiver VRF, plus Full Dual Receive Capability, External 50 V/24 A Switching Regulator Power Supply and Speaker with Audio Filters

Display color (Umber or Light Blue) may be selected at the time of purchase. Modification from 400 to 200 W not possible.



HF/50 MHz Transceiver FT DX 9000D 200 W Version

Large TFT, Data Management Unit and Flash Memory Slot Built In, Main/Sub Receiver VRF, plus Full Dual Receive Capability, Three μ -Tuning Modules for 160 - 20 M, 50 V/12 A Internal Switching Regulator Power Supply



HF/50 MHz Transceiver FT DX 9000 Contest 200 W Custom-Configurable Version

Two Pairs of Meters, plus LCD Window, VRF Input Preselector Filter, Three Key Jacks, and Dual Headphone Jacks, 50 V/12 A Internal Switching Regulator Power Supply

Display color (Umber or Light Blue) may be selected at the time of purchase. Modification from 200- to 400-Watt version not available.

For the latest Yaesu news, visit us on the Internet:
<http://www.vertexstandard.com>

Specifications subject to change without notice. Some accessories and/or options may be standard in certain areas. Frequency coverage may differ in some countries. Check with your local Yaesu Dealer for specific details.

YAESU
Choice of the World's top DX'ers™
Vertex Standard
US Headquarters
10900 Walker Street
Cypress, CA 90630 (714)827-7600

A TOUGH RADIO FOR A TOUGH WORLD!



2 m Band 50 W 2 m Ultra Rugged VHF FM Mobile
FT-1802M



65 W 2 m Rugged FM Mobile
FT-2800M

Get "Back to Basics" with YAESU's FM Dual Band Mobile
One-Touch Operation/Wide Receiver Coverage Included



DUAL BAND 50 W 2 m/70 cm* Dual Band FM Mobile
FT-7800R *70 cm 35 W

**QUAD BAND
DUAL RECEIVE**



50 W 10 m/6 m/2 m/70 cm* Quad Band FM Mobile
FT-8900R *70 cm 35 W

**DUAL BAND
DUAL RECEIVE**



50 W 2 m/70 cm* Dual Band FM Mobile
FT-8800R *70 cm 35 W

For the latest Yaesu news, visit us on the Internet:
<http://www.vertexstandard.com>

Specifications subject to change without notice. Some accessories and/or options may be standard in certain areas. Frequency coverage may differ in some countries. Check with your local Yaesu Dealer for specific details.

YAESU
Choice of the World's top DX'ers

Vertex Standard
US Headquarters
10900 Walker Street
Cypress, CA 90630 (714)827-7600



**NEW
from
YAESU**

New! FT-10R Dual Band FM Transceiver
Covers 144-148/430-450 MHz (FM/NFM) with wide band receive: 0.15-1.8, 76-108, 108-222, and 300-1000 MHz (cellular blocked) with AM/FM/NFM/WFM-Stereo modes. 500 alphanumeric memories. Power: 50/40, 20/20, 5/5W. VOX; EPCS (Enhanced Paging & Code Squelch Operation); Weather; Dual Receive (FM Radio & HAM Band, or any combination); Bluetooth Capability; Clock/Calendar; WIRES Ready; Line-IN (for MP-3 player); Public Address/Horn Alert. Dim: 4.38" w x 1.5" h x 7.12" d, 2.8 lb.

Price to be determined ... **CALL/WEB**

SINGLE BAND MOBILE



FT-1802M 50W 2M FM transceiver - Extended receive 136-174 MHz (includes a 10 channel NOAA weather bank); 221 memories with eight banks and Alpha-numeric labeling; CTCSS and DCS Encode/Decode; Automatic Repeater Shift (ARS); Automatic Power-Off (APO) and Busy Channel Lock-out (BCLO); Morse Code trainer; Illuminated front panel keys; One-touch access to Yaesu's WIRES-II™ Internet Linking System; Password security prevents unauthorized use; Includes backlit DTMF microphone with four programmable keys and direct keyboard frequency entry. Dim: 5.6" w x 1.6" h x 5.8" d; 2.6 lbs © **\$124.99**

Available Accessories:

ADMS1802 Programming software, MLS100 Mobile speaker

POPULAR ACCESSORIES



For All Yaesu Mobiles:

FP-1023 - 23A Switching PS w/fan ... **\$169.99**

FP-1030A - 25A PS w/meters **\$269.99**

MLS-100 - Mobile Speaker **\$49.99**

Programming software each **\$39.99**

Only for FT-7800, 8800, & 8900:

CT-39 - Packet Cable **\$11.99**

MMB-60 - Quick release mobile mount **\$39.99**

Only for FT-8800, & 8900:

MMB-62 - Remote control panel bracket **\$44.99**

YSK-8900 - Remote separation kit **\$59.99**

Only for FT-7800:

YSK-7800 - Remote separation kit **\$59.99**

Only for FT-2800:

S-8002051 - Extra mobile bracket **\$4.99**

S-8101436 - Extra DC cable **\$7.99**

MORE YAESU ACCESSORIES IN PRICE GUIDE

YAESU

SINGLE BAND MOBILE



FT-2800M 2M FM Transceiver - Cool, quiet, and ruggedly-built. Utilizes a Ultra-high Dissipation heat sink design, eliminating the need for a cooling fan. Covers 144-148 MHz transmit with 137-174 MHz receive. Includes Weather with Alert and 221 memories. Power: 65/25/10/5W; Direct keypad frequency entry with a backlit microphone that includes a 9-memory, 16-digit, DTMF autodialer and 4 user-programmable "soft" keys; Advanced track tuning RF input filtering; Alphanumeric display; Ergonomic, impact-resistant, MIL-spec design; CTCSS encode/decode and SmartSearch™ auto memory loading; Versatile scanning features a choice of scanning-resume option along with a "preferential" list; WIRES™ ready. Dim: 6.3" w x 2.0" h x 7.3" d; 4 lbs © **\$139.99**

Available Accessories:

ADMS2J Programming software, MLS100 Mobile speaker,

S8002051 Extra mobile bracket, S8101436 Extra DC cable

LARGE STOCKS

We are in a position to take care of your needs out of our Regular Inventory.

DUAL BAND MOBILE



FT-7800R 2M/440 MHz FM Mobile - Designed for simplicity of operation along with a high performance receiver section. Ideal for simplex, repeater, or satellite operation on both bands, without the need for cross-band repeat capability. Covers 144-148 & 430-450 MHz transmit with 108-520 & 700-999 MHz (cell blocked) receive. Power: 50W (2M), 40W (430 MHz); N.O.A.A. weather alert; 1000+ memory channels; One-touch operation via five "hyper memory" buttons; Illuminated keypad and microphone keys; WIRES™ capability. Dim: 5.5" w x 1.6" h x 6.6" d; 2.2 lbs © **\$244.99**

Available Accessories:

ADMS2K Programming software, CT39 Packet cable, MLS100

Mobile speaker, MMB60 Quick release mobile mount,

T9021715 Extra DC cable, YSK7800 Remote separation kit

© Price after instant coupon, coupons and freebies may expire 4/30/07. Please call/web for current price and promotions.

DUAL BAND MOBILE



**Free
Separation
Kit!**

FT-8800R Dualband FM Mobile - Easy operation, outstanding receiver performance, and cross-band repeat capability, the 8800R is the new standard of comparison. Covers 144-148 & 430-450 MHz transmit with 108-520 & 700-999 MHz (cell blocked) wide coverage receive (Public safety, Commercial, Aircraft, and Government ranges); Power: 50W on 144 MHz, 35W on 430 MHz; Over 1000 memory channels, 512 "regular" on each band, five "Home," ten sets of band-edge memories on each band, and six "Hyper Memories" (complete sets of transceiver configurations); Independent 2-channel operation - dual RX with one band as the main TX/RX band; Separate volume and squelch controls for each band; Ability to configure 8800R for VHF-VHF or UHF-UHF operation; Large, easy-to-read OmniGlow™ LCD with 4 illumination levels; Cross-band repeat capability; One-touch band pattern; CTCSS/DCS (50/104 tone); User-program mic keys; Convenient remote-head mounting capability (optional kit required). Dim: 5.5" w x 1.6" h x 6.6" d; 2.2 lbs ... **Free YSK-8900 \$374.99**

QUAD BAND MOBILE



**Free
Separation
Kit!**

FT-8900R Quad Band FM Mobile - National or World-wide FM communications from a vehicle. Covers 28-29.7, 50-54, 144-146, 430-440 MHz transmit with 28-29.7, 50-54, 108-180, 320-480 and 700-985 MHz (cell blocked) receive. Power: 50W (10/6/2M), 35W (430 MHz); FM satellite operation; Over 800 memories; DTMF auto-dial memory; One-touch band-pattern "Hyper-Memory," allows set up and storage of complete transceiver configuration settings. Saves button pushing! CTCSS and DCS encode/decode; Smart-Search™ auto memory loading; Cross band repeat; Independent, 2-channel, dual receive and full duplex (separate volume and squelch controls, as well as S-meters); Built-in duplexer; WIRES™ compatible; RF squelch; Auto repeater shift; ARTS™ capable; User-programmable microphone keys; Easy set up for FM satellite operation; Battery voltage meter; Time-out timer; Automatic power off; Large, easy-to-read LCD display; 1200/9600 bps packet; Thermal cooling fan; Remote head mounting capability. Dim: 5.5" w x 1.6" h x 6.6" d; 2.2 lbs **Free YSK-8900 \$424.99**

Available Accessories for FT-8800R & FT-8900R:

ADMS2H Programming software (8900R), ADMS2I

Programming software (8800R); CT39 Packet cable, MLS100

Mobile speaker, MMB60 Quick release mobile mount,

MMB62 Remote control panel bracket, T9021810 Extra DC

cable, YSK8900 Remote separation kit

Conquer the Elements!

IPX7
Submersible
3 feet (1m) for 30 min.

5 W Heavy Duty Submersible
2 m/70 cm Dual Band FM Hand held
VX-6R



5 W Ultra-Rugged, Submersible
6 m/2 m/70 cm Tri-Band FM Hand held
VX-7R/VX-7RB

6 m / 2 m / 70 cm
Tri-Band (220 MHz: 300 mW)

Extreme ruggedness,
outstanding audio,
ease of operation, and
new emergency features



2 m / 70 cm
Dual Band

5 W Heavy Duty
2 m/70 cm Dual Band FM Hand held
FT-60R



1.5 W Ultra Compact
2 m/70 cm Dual Band
FM Hand held

VX-2R 2 m / 70 cm
Dual Band

For the latest Yaesu news, visit us on the Internet:
<http://www.vertexstandard.com>

Specifications subject to change without notice. Some accessories and/or options may be standard in certain areas. Frequency coverage may differ in some countries. Check with your local Yaesu Dealer for specific details.

YAESU
Choice of the World's top DVers™

Vertex Standard
US Headquarters
10900 Walker Street
Cypress, CA 90630 (714)827-7600

Free
Extra
Battery!

SINGLE BAND HTs

VX-150 2M Ultra-Rugged FM HT - Designed to perform under the most difficult conditions. Coverage: 144-148 MHz TX, 140-174 MHz RX. 209 memories; 5W output with standard battery; Three power output levels 5/2/0.5W; Wide/Narrow deviation selection; Direct keypad input with 16 multi-function keys and two user-definable function keys; Priority monitoring; Dual watch; Smart-Search™ automatic memory loading; 7-Digit alpha memory labels; CTCSS & DCS encode/decode; 9 DTMF auto dial memo memory bank and preferential memory scanning; VFO search; Illuminated keypad & OmniGlow™ display; Auto repeater shift; ARTS™ (auto-range transponder system) function; 1750 Hz tone calling for European repeaters; Programmable menu; Die-cast aluminum case; High output speaker; Battery saver; Auto power off; MIL-STD 810D/E. Comes with FNB-64 2200mAh NiCad battery pack, SMA antenna, NC-72B wall charger, and belt clip. Dim: 4.2" h x 3.3" w x 1.1" d; 11.5 oz..... **Free FNB-64 @ \$117.99**

Available Accessories

ADMS1F Programming software, CN3 BNC-SMA adapter, CT27 Cloning cable, CT44 2-pin speaker mic adapter, CTC5B DC adapter/filter, EDC6 DC adapter; plug/wire only, FBA25 6 "AA" cell battery case, FNB57 1100mAh battery, FNB64 7.2V 700mAh battery, LC150S/TT Leather case, LCC150S/TT Leather case/swivel, MH34B4B Speaker mic, MH37A4B Earpiece and mic, VAC400B One-hour rapid charger, VC25 VOX headset

VX-170 is 2M (shown)
VX-177 is 440 MHz



VX-170 2 meter FM handheld - A rugged, compact, high-performance FM HT delivering up to 5 watts of RF power. Similar to the VX-150, but has a larger display, double the battery capacity and significantly higher audio output. Receive coverage is from 136 to 174 MHz and 200 alphanumeric memory channels that may be partitioned into as many as 10 memory groups. A 16 key backlit keypad for direct frequency entry and 4 column DTMF Paging. CTCSS/DCS encode/decode and a Code Squelch (EPCS) that allows

finding a particular station and only receive calls from that station if desired. Security password feature protects against unauthorized use. One-touch access to the Yaesu WIRELESS™ VOIP Internet Linking System. Comes with FNB-83 7.2V 1000mAh Ni-MH battery pack, flexible SMA antenna, NC-88B wall charger, and belt clip. **@ \$119.99**

VX-177 - Same as VX-170 but SW 440 instead of 2M. Dim: 2.4" w x 4.7" h x 1.3" d; 13.8 oz..... **\$149.99**

Available Accessories

ADMSV170 Programming software for VX-170, ADMSV177 Programming software for VX-177, CD26 Charger cradle, CMP460A Waterproof speaker/mic, CN3 BNC-SMA adapter, CT91 Microphone adapter, EDC5B DC adapter/filter, EDC6 DC adapter; plug/wire only, FBA25 6 "AA" cell battery case, FNB83 7.2V 1400mAh NiMH battery, MH37A4B Speaker mic, VAC370 Rapid charger, VC24 VOX headset, VC27 Earpiece/mic

YAesu

DUAL BAND HTs



FT-60R 144/440 MHz FM Dualband HT - Wide RX coverage. Augmenting the transceiver on 144/430 MHz, there is RX coverage of VHF/UHF TV, VHF AM aircraft, and more: 108-137, 137-520 and 700-999 MHz (cell blocked). Emergency NOAA weather access and alert with alert scan. Power: 5/2/0.5W; 1000+ memories with alphanumeric labels; Emergency

Automatic ID (EAI) feature, for search-and-rescue operations. Split CTCSS/DCS and DCS encode-only capability; Enhanced Paging and Code Squelch (EPCS), that allows you to page a particular station and only receive calls from that station, if desired; 9 DTMF auto-dialer memories; Two front panel programmable keys; WIRES™ access key; Programmable level RF squelch; Mono-band and memory-only modes; TX time-out timer and auto power-off; Auto repeater shift; Auto-Range Transponder System (ARTS™); NiMH long-life battery and charger. Rugged die-cast case, water-resistant; Comes with FNB-83 7.2V 1400mAh NiMH battery pack, NC-88B overnight charger, flexible SMA antenna, and belt clip. Dim: 2.3" w x 4.3" h x 1.2" d; 13 oz..... **\$189.99**

Available Accessories

ADMS1J Windows software, CN3 BNC-SMA adapter, CT27 Cloning cable/CT27A, CT44 2-pin speaker/mic adapter, EDC5B DC adapter/filter, EDC6 DC adapter; plug/wire only, FBA25 6 AA cell battery case, FNB83 7.2V 1400mAh NiMH battery, MH34B4B Speaker mic, MH37A4B Earpiece and mic, VAC370 Rapid charger, VC25 VOX headset



VX-2R Ultra-compact 144/440 MHz FM HT with Wide Band Receive Powered by FNB-82LI Li-ion 3.7V 1000 mAh battery pack providing 1.5W output on 2M, 1W on 70cm. With EDC-21 external DC power applied (optional), power increases to 3/2W (2M/70cm). Wide RX coverage from 500 kHz to 999 MHz (cell blocked) in AM and FM modes. NOAA weather broadcasts with "severe weather" alert. Over 1300 memories; CTCSS/DCS with "split tone" capability; WIRES™ internet key; DTMF auto-dialer. Priority operation; RF squelch; Automatic Repeater Shift; ARTS™; Busy channel lock-out; Wide/Narrow deviation; Rugged die-cast aluminum chassis. Comes with FNB-82LI battery, NC-85 charger, antenna and belt clip. Dim: 1.89" w x 3.19" h x 0.91" d; 4.7 oz. **@ \$139.99**

Available Accessories

ADMS1H Programming software, CN3 BNC-SMA adapter, CSC90 Soft case, CT27 Cloning cable, CT44 2-pin speaker mic adapter, EDC21 DC adapter, FNB82LI 3.7V 1000mAh lithium-ion battery, MH34B4B Speaker mic, MH37A4B Earpiece and microphone, VC25 VOX headset

© Price after instant coupon, coupons and freebies may expire 4/30/07. Please call/web for current price and promotions.



VX-6R 144/222/440 MHz Triple band Submersible HT - 5W power on 144/440 MHz and 1.5W on 220 MHz; Wide receive coverage: 504 kHz - 998.990 MHz (cell blocked); 900 memory channels with 24 memory banks and two "Special Memory" groups; New "Wake-Up" feature checks for activity when the radio is turned off! Emergency Automatic

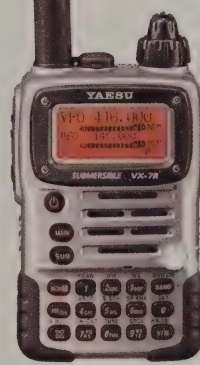
ID (EAI) system; Four output power settings: 5/2.5/1/0.3W on 144/440 MHz, 1.5/1/0.5/0.2W on 222 MHz; One-touch Direct Memory Recall (DMR) access to most important memory channels; Internal temperature sensor; WIRES™ internet-linking; The optional SU-1 barometric pressure sensor unit permits monitoring of sudden weather changes by monitoring atmospheric pressure. Comes with FNB-80LI 7.4V 1400mAh Li-Ion battery pack, NC-72B 5 hour battery charger, flexible SMA antenna, belt clip, hand strap. Dim: 2.3" w x 3.5" h x 1.1" d; 9.5 oz..... **\$249.99**

Available Accessories

ADMSVX6 Programming software, CD15A Charger stand for NC72B, CMP460A Waterproof speaker/mic, CN3 BNC-SMA adapter, CSC91 Soft case, CT91 Mic adapter, EDC5B DC adapter/filter, EDC6 DC adapter; plug/wire only, FBA23 2 AA cell battery case, FNB80LI 7.4V 1300mAh lithium-ion, MH57A4B Speaker/mic, NC72B Extra wall charger, SU1 Altitude/barometric pressure sensor, VC24 VOX headset, VC27 Earpiece/mic

QUAD-BAND HT

VX-7R Ultra-Rugged, Submersible Magnesium FM Quad-band HT With a full 5W output on 50, 144 and 440 MHz FM, 222 MHz FM band at 300mW. The rugged design allows the unit to be submersible at 3 ft. for 1/2 hour, and meets JIS-7 specification. 500 kHz to 999 MHz continuous receive (cellular blocked); Over 900 memories including 40 memory scan band limit, and 10 weather; Built-in CTCSS/DCS enc/decode; "Split Tone" capability; Auto-Range Transponder System; User-changeable icons and fonts; Full-color strobe LED; Spectrum scope display; 24-hour clock; On/Off timers; WIRES™ internet-linking; Comes with FNB-80LI 7.4V 1300mAh lithium-ion battery, NC-72B battery charger, dual section belt clip. Black or silver. Dim: 2.4" w x 3.5" h x 1.1" d; 9.2 oz.



VX-7RB Same but black case.... each **@ \$314.99**

Available Accessories

ADMS1G Programming software, CD15A Rapid charger for NC72B, CMP460A Waterproof speaker/mic, CN3 BNC-SMA adapter, CSC88 Soft case, CT91 Mic adapter, EDC5B DC adapter/filter, EDC6 DC adapter; plug/wire only, FBA23 2 "AA" cell battery case, FNB80LI 7.4V 1300mAh lithium-ion, MH57A4B Speaker/mic, NC72B Extra wall charger, Q3000185 Replacement duck, SU1 Altitude/barometric pressure sensor, VC24 VOX headset, VC27 Earpiece/mic

Price Guide
Used / Demo

Ham Radios

Ham Radio
Accessories

Antennas

Antennas
Accessories

Publications

Other
Radios

Weather
& GPS

Audio / Video
& Tools

AES
Information

Tougher than Tough!

YAESU's rugged new VX-120/170 Series of 2-m or 70-cm Hand-holds aren't just built tough. They're submersible, have a huge, easy-to-read LCD, and they provide big, bold audio (almost 3/4 of a Watt) from the huge internal speaker!



The VX-120-170 Series are compact, high-performance Submersible FM hand-holds providing up to five Watts of RF power, along with big audio output (700 mW) for the 2-m or 70-cm amateur bands.

Protected against water ingress to IPX7 specifications (submersion for up to 3 feet/1 meter for 30 minutes), thanks to the supplied 1400 mAh Ni-MH Battery Pack. The 8-key VX-120 Series provides the utmost in operation simplicity, while the 16-key VX-170 Series includes direct keypad frequency entry and direct DTMF input. And both models provide quick, one-touch access to YAESU's exciting and fun WiRES-II™ VoIP Internet Linking system!

- 5W FM Transceiver
- Wide Receiver Coverage
- IPX7 Submersible 3 feet (1m) for 30 minutes
- Loud Audio 700 mW via Internal Speaker
- Long Life Battery FNB-83 (7.2 V/1400 mAh) included
- Huge Display (LCD)
- Enhanced Paging and Code Squelch (EPCS)
- CTCSS/DCS included
- Security Password Feature
- Direct Keypad Frequency Entry (VX-170 Series)
- Transmit Time-Out Timer (TOT)
- Automatic Power-Off (APO)
- Automatic Repeater Shift (ARS)
- YAESU's exclusive ARTS™ (Auto-Range Transponder System)
- RF Squelch Circuit
- 200 Standard Memory Channels with 10 Memory Banks
- Alpha-Numeric Labeling of Memories
- Dual Watch (Priority Channel Scanning)
- Emergency Feature
- Smart Search Memories

FM Mono Band Hand Held Transceiver VX-120/VX-170 Series

(8 key Version / 16 key Version)

VX-120/170 (VHF) VX-127/177 (UHF)



Waterproofing specifications are assured only when using the genuine YAESU FNB-83 Battery Pack or FBA-25A Battery Holder. The use of after-market batteries or other accessories may compromise the effectiveness of the waterproofing.

For the latest Yaesu news, visit us on the Internet:
<http://www.vertexstandard.com>

Specifications subject to change without notice. Some accessories and/or options may be standard in certain areas. Frequency coverage may differ in some countries. Check with your local Yaesu Dealer for specific details.

YAESU
Choice of the World's top DXers™
Vertex Standard
US Headquarters
10900 Walker Street
Cypress, CA 90630 (714)827-7600

Links to Manufacturer's Websites at aesham.com

(5) On internal batteries: 20W (10W on 70cm)
(6) On internal batteries: 5W (2.5W on 70cm)

(1) One port for HF, one port for 6M
(2) HF/6M one port, 2W/40MHz second port
(3) Two ports for HF, one dedicated for 2M
(4) No FM

* Removable control head
* Optional module required for TS-2000, and B versions
(1) One port for HF, one port for 6M

HF RADIOS	ALINCO	ALINCO	ICOM	ICOM	ICOM	ICOM	ICOM	ICOM	ICOM	ICOM	ICOM	KENWOOD	KENWOOD	KENWOOD	KENWOOD
MAUFACTURER	DX-70TH*	DX-77T	IC-703PLUS*	IC-706MKIIG*	IC-7000*	IC-718	IC-746PRO	IC-756PROIII	IC-7800	TS-2000	TS-B2000	TS-480HX*	TS-480SAT	TS-570D(G)	TS-570S(G)
BANDS	HF, 6M HF, 6M	HF, 6M HF, 6M	HF, 6M HF, 6M	HF, 6M HF, 6M	HF, 6M HF, 6M	HF, 6M HF, 6M	HF, 6M, 2M HF, 6M, 2M	HF, 6M HF, 6M	HF, 6M HF, 6M	HF, 6M, 2M HF, 6M, 2M	HF, 6M, 2M HF, 6M, 2M	HF, 6M HF, 6M	HF, 6M HF, 6M	HF, 6M HF, 6M	HF, 6M HF, 6M
RX RANGE (MHz)	0.15-30 50-54	0.5-30	0.03-30 30-60	0.03-30 400-470	0.03-199 400-470	0.03-30	0.03-60 108-174	0.03-60	0.03-60	0.03-60 70CM, 1.2GHz*	0.03-60, 142-152 420-450	0.03-60	0.03-60	0.5-30	0.5-30
POWER (SSB/CW/FM)	10-100W	10-100W	10/5W	5-100 HF/6M 5-50 2M 2-20 70CM	2-100 HF/6M 2-50 2M 2-35 70CM	5-100W ⁽⁴⁾	5-100W	5-200W	5-200W	100W HF/6M 50W 70CM 10W 1.2GHz*	200W HF/6M	100W HF/6M	100W HF/6M	5-100W	5-100W
POWER (AM)	4-40W	4-40W	2/4W	2-40W HF/6M 2-20W 2M 2-8W 70CM	1-40W HF/6M 2-20W 2M 2-14W 70CM	2-40W	5-40W	5-40W	5-50W	25W HF/6M 12.5W 70CM 2.5W 1.2GHz*	5-50W	5-50W	5-25W	5-25W	5-25W
DSP	NO	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
TUNER	OPTIONAL	OPTIONAL	YES	OPTIONAL	OPTIONAL	OPTIONAL	YES	YES	YES	YES	YES	YES	YES	YES	YES
KEYER	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
SPEECH READOUT	NO	NO	NO	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	YES	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
Voice	NO	NO	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
POWER REQUIREMENT	12VDC 25A	12VDC 20A	9-15.8VDC 2/3A	12VDC 20A	12VDC 22A	12VDC 20A	12VDC 23A	12VDC 23A	BUILT-IN	12VDC 20.5A	12VDC 20.5A	12VDC 41A	12VDC 20.5A	12VDC 20.5A	12VDC 20.5A
ANTENNA PORTS	2 ⁽¹⁾	1	1	2 ⁽³⁾	2 ⁽³⁾	1	3 ⁽³⁾	2	4	5	5	2	2	2	2
COMPUTER PORT	NO	NO	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	RS-232	RS-232	RS-232	RS-232	RS-232	RS-232	RS-232
HEIGHT (IN)	2.3	3.7	2.3	2.3	2.59	3.75	4.7	4.3	5.9	3.75	2.4	2.4	2.4	3.8	3.8
WIDTH (IN)	7	9.8	6.56	6.6	6.6	9.44	11.3	13.3	16.6	10.63	7	7	7	10.6	10.6
DEPTH (IN)	9	9	7.87	7.9	7.09	9.4	12.5	11.2	17.1	12.5	10.2	10.2	10.2	10.7	10.7
WEIGHT (LBS)	6	8.4	4.4	5.5	5.1	8.4	19.5	21	55	17.19	8.15	8.15	8.15	15	15

HF RADIOS	YAESU	YAESU	YAESU	YAESU	YAESU	YAESU	YAESU	YAESU	YAESU	YAESU	YAESU	YAESU	YAESU	YAESU	YAESU
MAUFACTURER	FT-901	FT-902	FT-903	FT-904	FT-905	FT-906	FT-907	FT-908	FT-909	FT-910	FT-911	FT-912	FT-913	FT-914	FT-915
BANDS	HF, 6M HF, 6M	HF, 6M HF, 6M	HF, 6M HF, 6M	HF, 6M HF, 6M	HF, 6M HF, 6M	HF, 6M HF, 6M	HF, 6M HF, 6M	HF, 6M HF, 6M	HF, 6M HF, 6M	HF, 6M HF, 6M	HF, 6M HF, 6M	HF, 6M HF, 6M	HF, 6M HF, 6M	HF, 6M HF, 6M	HF, 6M HF, 6M
RX RANGE (MHz)	21-21.2 14-14.075	10.1-10.15	7.0-7.5	28.3-28.6	14.15-14.35	7.15-7.3	3.75-4	TBD	0.1-56 76-154	0.1-30 118-164	0.1-30 118-164	0.1-30 118-164	0.1-30 118-164	0.1-30 118-164	0.1-30 118-164
POWER (SSB/CW/FM)	5W CW	5W CW	5W CW	20W SSB PEP	20W SSB PEP	12W SSB PEP	12W SSB PEP	TBD	5W SSB/CW/FM	100W HF 20W 70CM	100W HF 20W 70CM	100W HF 20W 70CM	100W HF 20W 70CM	100W HF 20W 70CM	100W HF 20W 70CM
POWER (AM)	NO	NO	NO	NO	NO	NO	NO	TBD	1.5W	12.5W 2M 5W 70CM	12.5W 2M 5W 70CM	12.5W 2M 5W 70CM	12.5W 2M 5W 70CM	12.5W 2M 5W 70CM	12.5W 2M 5W 70CM
DSP	NO	NO	NO	NO	NO	NO	NO	TBD	NO	YES	YES	YES	YES	YES	YES
TUNER	NO	NO	NO	NO	NO	NO	NO	TBD	NO	NO	NO	NO	NO	NO	NO
KEYER	NO	NO	NO	NO	NO	NO	NO	TBD	YES	YES	YES	YES	YES	YES	YES
SPEECH READOUT	NO	NO	NO	NO	NO	NO	NO	TBD	YES	YES	YES	YES	YES	YES	YES
Voice	NO	NO	NO	NO	NO	NO	NO	TBD	YES	YES	YES	YES	YES	YES	YES
POWER REQUIREMENT	12VDC 1.2A	12VDC 1.2A	12VDC 1.2A	12VDC 1.2A	12VDC 1.2A	12VDC 1.2A	12VDC 1.2A	TBD	12VDC 1.2A	12VDC 1.2A	12VDC 1.2A	12VDC 1.2A	12VDC 1.2A	12VDC 1.2A	12VDC 1.2A
ANTENNA PORTS	1	1	1	1	1	1	1	TBD	2	2 ⁽²⁾	2 ⁽²⁾	2 ⁽²⁾	2 ⁽²⁾	2 ⁽²⁾	2 ⁽²⁾
COMPUTER PORT	NO	NO	NO	NO	NO	NO	NO	TBD	1.5W	3.14	3.14	3.14	3.14	3.14	3.14
HEIGHT (IN)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	TBD	5.3	5.3	5.3	5.3	5.3	5.3	5.3
WIDTH (IN)	6.5	6.5	6.5	6.5	6.5	6.5	6.5	TBD	5.3	5.3	5.3	5.3	5.3	5.3	5.3
DEPTH (IN)	6	6	6	6	6	6	6	TBD	6.5	6.5	6.5	6.5	6.5	6.5	6.5
WEIGHT (LBS)	2	2	2	2	2	2	2	TBD	2.6	4.6	4.6	4.6	4.6	4.6	4.6

See pages 43 & 45 or go to Yaesu's Website:
WWW.YAESU.COM

Links to Manufacturer's Websites at aesham.com

SINGLE BAND MOBILES									
MANUFACTURER	ALINCO	ALINCO	ALINCO	ALINCO	ICOM	ICOM	ICOM	ICOM	ICOM
MODEL	DR-135TMMKIII, TPKMIII	DR-235TMMKIII	DR-435TMMKIII	IC-2200H	IC-2200H	IC-2200H	IC-2200H	IC-2200H	IC-2200H
TX RANGE (MHz)	50-54	144-148	222-224, 995	430-449, 995	144-148	144-148	144-148	144-148	144-148
RX RANGE (MHz)	40-60 ⁽¹⁾	118-174	216-279, 995	330-511, 995	118-174	136-174	136-174	136-174	136-174
AIRCRAFT RX	NO	YES	NO	NO	YES	NO	NO	NO	NO
POWER OUTPUT	20/1W	50/10/5W	25/10/5W	35/10/5W	65/25/10W	75/25/10/5W	10/1W	60/25W	5W
TTP MICROPHONE	YES	YES	YES	YES	YES	YES	YES	YES	YES
TOE ENCODE	YES	YES	YES	YES	YES	YES	YES	YES	YES
TOE DECODE	YES	YES	YES	YES	YES	YES	YES	YES	YES
MEMORIES	100	100	100	100	207	207	207	207	207
ALPHANUMERIC	NO	YES	YES	YES	YES	YES	YES	YES	YES
PC PROGRAMMABLE	NO	YES	YES	YES	YES	YES	YES	YES	YES
13.8V DC @	5A	11A	8A	10A	15A	15A	7A	>1A	>1A
ANTENNA CONNECTOR	SO-239	SO-239	SO-239	SO-239	SO-239	SO-239	SO-239	SO-239	SO-239
HEIGHT (IN)	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
HEIGHT (IN)	5.5	5.6	5.6	5.6	5.5	5.5	5.5	5.5	5.5
DEPTH (IN)	4.5	6.9	6.9	6.9	7.1	5.9	2	5.4	5
WEIGHT (LBS)	1.5	2.3	2.3	2.3	2.75	2.22	2.6	0.8	2

MULTI BAND MOBILES									
MANUFACTURER	ALINCO	ALINCO	ALINCO	ALINCO	ICOM	ICOM	ICOM	ICOM	ICOM
MODEL	DR-620T	DR-635T	DR-635T	DR-635T	DR-635T	DR-635T	DR-635T	DR-635T	DR-635T
TX RANGE (MHz)	144-148	144-148	144-148	144-148	144-148	144-148	144-148	144-148	144-148
RX RANGE (MHz)	430-450	430-450	430-450	430-450	430-450	430-450	430-450	430-450	430-450
SINGLE OR DUAL RX	DUAL	DUAL	DUAL	DUAL	DUAL	DUAL	DUAL	DUAL	DUAL
POWER (2W)	50/35/10/5W	50/25/5W	55/15/5W	55/15/5W	50/20/5W	50/15/5W	50/10/5W	50/10/5W	50/10/5W
POWER (400 MHz)	35/10/5W	35/20/5W	50/15/5W	50/15/5W	35/20/5W	50/15/5W	35/10/5W	35/10/5W	35/10/5W
TOE ENCODE	YES	YES	YES	YES	YES	YES	YES	YES	YES
TOE DECODE	YES	YES	YES	YES	YES	YES	YES	YES	YES
DUPLEXER	YES	YES	YES	YES	YES	YES	YES	YES	YES
CROSS-BAND REPEAT	NO	YES	YES	YES	YES	YES	YES	YES	YES
ALPHANUMERIC	YES	YES	YES	YES	YES	YES	YES	YES	YES
PC PROGRAMMABLE	YES	YES	YES	YES	YES	YES	YES	YES	YES
9600B COMPATIBLE	YES	YES	YES	YES	YES	YES	YES	YES	YES
SEPARABLE	YES	YES	YES	YES	YES	YES	YES	YES	YES
HEIGHT (IN) (HEAD)	5.51	5.5	5.6	5.6	1.6	1.6	1.6	1.6	1.6
WIDTH (IN)	1.57	1.6	1.6	1.6	5.5	5.5	5.5	5.5	5.5
DEPTH (IN)	7.28	7.3	7.3	7.3	7.4	7.4	7.4	7.4	7.4
WEIGHT (LBS)	2.2	2.2	2.65	2.7	3	3	3	3	3

- (1) Requires keyboard modification
- (2) There are gaps in non-voice or data portions in certain bands
- (3) 2 Piece configuration only
- (4) Control head separate from body
- (5) AM aircraft receive mode
- (6) Manufacturer only guarantees specs within the ham bands
- (7) FT-9900R includes 10W/6M as well

All radios are cellular blocked

Links to Manufacturer's Websites at **aesham.com**

- (1) Standard CTCSS plus DCS
(2) Folding ant. attached
(3) Dual operation between Voice & Data
(4) 1.5W on 2M & 1W on 70cm
All radios are cell blocked

SINGLE BAND HANDHELDS													
MANUFACTURER	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ICOM	ICOM	ICOM	ICOM
MODEL	DJ-196T	DJ-296T	DJ-496T	DJ-511T	DJ-511T	DJ-511T	DJ-511T	DJ-511T	DJ-511T	IC-V85	IC-V85	IC-V85	IC-V85
BAND	2M	220MHz	440MHz	440MHz	440MHz	440MHz	440MHz	440MHz	440MHz	2M	2M	2M	2M
RX RANGE (MHz)	135-174	222-225	430-450	144-148	130-174	130-174	130-174	130-174	130-174	136-174	136-174	136-174	136-174
AIRCRAFT RX	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
POWER OUTPUT	5W	5W	5W	340mW	5W	5W	5W	5W	5W	5W	5W	5W	5W
TOUCH-TONE PAD	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
TOUCH-ENCODE	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
TOUCH-DECODE	YES ⁽¹⁾	YES ⁽¹⁾	YES ⁽¹⁾	NO	YES ⁽¹⁾	YES ⁽¹⁾	YES ⁽¹⁾	YES ⁽¹⁾	YES ⁽¹⁾	YES ⁽¹⁾	YES ⁽¹⁾	YES ⁽¹⁾	YES ⁽¹⁾
MEMORIES	40	40	40	21	200	100	100	100	100	100	100	100	100
ALPHANUMERIC	YES	YES	YES	NO	YES	NO	YES	YES	YES	YES	YES	YES	YES
BATTERY TYPE	NI-CAD	NI-CAD	NI-CAD	AA	AA	AA	AA	AA	AA	LI-ION	LI-ION	LI-ION	LI-ION
PC PROGRAMMABLE	YES	YES	YES	NO	YES	NO	YES	YES	YES	YES	YES	YES	YES
ANTENNA CONNECTOR	BNC	BNC	BNC	FIXED ⁽²⁾	SMA	SMA	SMA	SMA	SMA	BNC	BNC	BNC	BNC
HEIGHT (IN)	4.9	4.9	4.9	3.9	4.33	4	3.86	5.5	5.5	5.2	5.2	4.4	4.4
WIDTH (IN)	2.2	2.2	2.2	2.2	2.28	2.2	2.24	2.1	2.1	2.1	2.1	2.4	2.4
DEPTH (IN)	1.6	1.6	1.6	1.1	1.43	1.2	1.17	1.4	1.4	1.4	1.4	1.35	1.1
WEIGHT (OZ)	13.2	13.2	13.2	6.5	9.9	3.5	5.7	13.8	13.8	12.3	12.3	12.5	12.5

MULTI BAND HANDHELDS													
MANUFACTURER	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ICOM	ICOM	ICOM	ICOM
MODEL	DJ-596TUKII	DJ-596TUKII	DJ-596TUKII	DJ-596TUKII	DJ-596TUKII	DJ-596TUKII	DJ-596TUKII	DJ-596TUKII	DJ-596TUKII	IC-91A / AD	IC-91A / AD	IC-91A / AD	IC-91A / AD
TX RANGE (MHz)	144-148	144-148	144-148	144-148	144-148	144-148	144-148	144-148	144-148	420-450	420-450	420-450	420-450
RX RANGE (MHz)	136-174	88.1-174	380-512	76-999	118-174	118-174	118-174	118-174	118-174	0.495-999.99	0.495-999.99	0.495-999.99	0.495-999.99
SINGLE/MULTI RX	NO	YES	YES	YES	YES	YES	YES	YES	YES	DUAL	DUAL	DUAL	DUAL
AIRCRAFT RX	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
POWER OUTPUT	5W	300mW	5W	5W	6W	70	70	70	70	5W	5W	5W	5W
MEMORIES	100	200	200	200	200	200	200	200	200	1304	1304	1304	1304
CTCSS	ENC/DEC/DCS	ENC/DEC	ENC/DEC	ENC/DEC	ENC/DEC	ENC/DEC	ENC/DEC	ENC/DEC	ENC/DEC	ENC/DEC/DCS	ENC/DEC/DCS	ENC/DEC/DCS	ENC/DEC/DCS
TOUCH-TONE PAD	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
ALPHANUMERIC	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
PC PROGRAMMABLE	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
BATTERY TYPE	NI-CAD	NI-CAD	NI-CAD	NI-CAD	AA	AA	AA	AA	AA	LI-ION	LI-ION	LI-ION	LI-ION
ANTENNA CONNECTOR	BNC	SMA	SMA	SMA	BNC	BNC	BNC	BNC	BNC	SMA	SMA	SMA	SMA
HEIGHT (IN)	4.9	3.8	3.8	3.8	4.8	4.8	4.8	4.8	4.8	4.1	4.1	4.1	4.1
WIDTH (IN)	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.1	2.1	2.1	2.1
DEPTH (IN)	1.6	0.6	1.3	1.3	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.2
WEIGHT (OZ)	13.2	3.6	12	14.3	8.5	16	16	16	16	10.6	10.6	13.4	13.4

MFJ Switching Power Supplies

Power your HF transceiver, 6 meter/2 meter/440 MHz Mobile/Base and accessories with these 25 or 45 Amp MFJ MightyLite™ Switching Power Supplies!

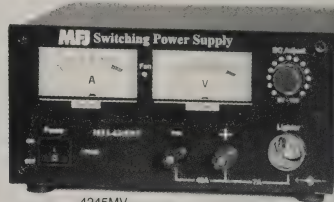
No RF hash • Super lightweight • Super small • Volt/Amp Meters



4125



4225MV



4245MV

Small & Lightweight – *MightyLites™* are so light and small you can carry them in the palm of your hand! Take them with you anywhere – no more hauling around heavy, bulky supplies.

Lightweight – The 25A *MightyLite™* only weighs 3.7 pounds – 5 times lighter than an equivalent conventional power supply. And the 45A model weighs just 5.5 pounds!

No RF Hash – Some switching power supplies generate objectionable RF hash in your transmitted and received signal. But, these babies are clean!

Low Ripple and Highly Regulated – Less than 35 mV peak-to-peak ripple and better than 1.5% regulation under full load.

Fully Protected – You won't burn up these power supplies! They are fully protected with overvoltage and overcurrent protection circuits.

Worldwide Versatility – Switchable AC input voltage for 85-135 or 170-260VAC.

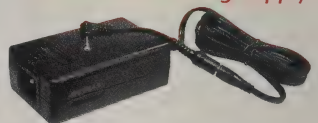
Mighty Features – Model 4225MV and 4245MV feature a front-panel voltage control which varies output voltage from 9 to 15VDC. Front-panel mounted 5-way Heavy Duty binding posts and cigarette lighter socket for mobile accessories. The 4245MV has two sets of quick-connects on the rear for accessories. Dual three inch illuminated meters monitor load voltage and current. Internal fan.

4125 (left) – Basic, no metering. 25 Amps maximum or 22 Amps continuous operation. Dim: 5.5" d x 2.5" w x 2.5" h; 3.5 lbs..... **\$109.99**

4225MV (center) – 25A maximum or 22A continuous. Dim: 5.75" w x 4.5" h x 6" d; 3.7 lbs **\$149.99**

4245MV (right) – 45A maximum or 40A continuous. Dim: 7.5" w x 4.75" h x 9" d; 5.5 lbs **\$199.99**

Miniature Switching Supply



Ideal for the Yaesu FT-817 and other QRP rig. Input is 100-240 VAC and delivers 13.8 VDC 2.89 Amps output. Fully protected for over-voltage, over-current, and over-temperature. Includes a DC output cable with a 2.1mm plug that fits most MFJ, other accessories and QRP rigs. Includes adapter cable for the FT-817. Dim: 4-1/2 x 2-5/8 x 1-3/8 in.; 10 oz..... **MFJ 4103 \$39.99**

All MFJ products come with MFJ's *No Matter What™* One-year Limited Warranty. (not including kits, books or software)

75Amp Switching Power Supply



AMERITRON

Perfect for 500W solid-state amplifiers like the Ameritron ALS-500M, SGC SG-500 and other high current applications. It gives 75 Amps output continuously with less than 100mV peak-to-peak ripple under 75 Amp full load and regulation better than 1.5%. Has reverse polarity protection, brown out input protection, over-current and over-temperature protection. Thermal-controlled quiet fan. **Output Boost** steps up the output from 13.8 to 14.2 VDC to compensate for power cable and connector loss. Input 108-132 VAC, 50/60 Hz (11 Amps). Can be used to charge vehicle and emergency back-up batteries. Dim: 6.5" w x 3.5" h x 10" d; lightweight, just 7.8 lbs..... **AMR 5P5-75 \$359.99**

35/30 Amp Adjustable DC Power Supply

- Conventional Design
- Massive 19.2 lb. transformer
- Adjustable 1-14 VDC
- Dual front panel meters



Super Heavy Duty – Excellent for powering all types of amateur transceivers and accessories. Easily delivers 30A continuous (35A max.) with regulation better than 1% and ripple voltage less than 30 mV. Over voltage, fold back and short circuit protected and variable fan cooled. Plenty of connections – three sets of output terminals including a pair of Heavy Duty, 5-way binding posts for transceivers, two pairs of quick-connects for accessories and a cigarette lighter socket for those mobile accessories. Dim: 9-1/2 x 6 x 9-3/4 in.; 20.6 lbs **4035MV \$149.99**

Gift Certificates
available from all
AES locations & online!

THIS CERTIFICATE ENTITLES _____

TO MERCHANDISE VALUED AT _____

PRESENTED BY _____

Certificate expires one year from date of issue. (This certificate is not valid for cash. Certificate will not be replaced if lost or stolen.)

3710 W. Good Hope Rd.
Milwaukee, WI 53223
414-358-0323
1-800-558-0411

78140 Euclid Ave.
Cleveland, OH 44092
440-535-7282
1-800-321-3594

821 Commonwealth Ave.
Ottawa, IL 21063
407-894-3238
1-800-327-1917

4440 South Polaris Ave.
Las Vegas, NV 89103
702-447-3314
1-800-434-6227

GIFT CERTIFICATE
AES
AMATEUR ELECTRONIC SUPPLY



Power Supplies

Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 W!

Browse Our Store On-Line at www.aesham.com

The Low Cost alternative to "matching" Power Supplies



05-125V AC input, 13.8V DC output; Internally adjustable from 11-15V; Electronic regulation with fold-back current limiting and crowbar overvoltage protection; Heavy-duty heat sink; Three-wire cord; One-year warranty; Made in U.S.A.

Separate Volt and Amp meters on RS-20M, 35M, 50M and 70M. Separate Volt and Amp meters, plus Voltage Adjustment (2-15V DC) on VS-20ML, VS-35M and VS-50M. The RM-35M, RM-50M and RM-70M are Rack Mount models, plus Separate Meters.

Model	Cont. Amps	ICS Amps	Size (in.) H W D	Shipping weight	Price
S-7A	5	7	3.75 x 6.5 x 9	9	\$59.99
S-10A	7.5	10	4 x 7.5 x 10.75	11	69.99
S-12A	9	12	4.5 x 8 x 10.75	13	79.99
S-20A	16	20	5 x 9 x 10.5	18	99.99
S-35A	25	35	5 x 11 x 11	27	149.99
S-35A/220V	Same as RS-35A but 220V input				C/O 149.99
S-50A	37	50	6 x 13.75 x 12	46	219.99
S-70A	57	70	6 x 13.75 x 12	48	279.99

With separate Volt & Amp meters

S-20M	16	20	5 x 9 x 10.5	18	119.99
S-35M	25	35	5 x 11 x 11	27	169.99
S-50M	37	50	6 x 13.75 x 11	46	239.99
S-70M	57	70	6 x 13.75 x 12	48	299.99
S-20ML	16	20	5 x 9 x 10.5	20	139.99
S-35ML	25	35	5 x 11 x 11	29	199.99
S-50ML	37	50	6 x 13.75 x 11	46	259.99

Rack mount; separate Volt & Amp meters

RM-35M	25	35	5.25 x 19 x 12	38	259.99
RM-50M	37	50	5.25 x 19 x 12	50	299.99
RM-70M	50	55	7 x 19 x 12	60	389.99

POWER SUPPLIES with added Features

S-4L - Has a built-in cigarette lighter receptacle in the front panel. 13VDC @ 4A peak, 3 Amps continuous. Dim: 3.5" h x 6.5" w x 4.25" d; 6 lbs **\$49.99**

S-12S - Has a built-in front mounted speaker. Rated 13VDC @ 12A peak, 9 Amps continuous. Dim: 4.5" h x 8" w x 9" d; 13 lbs **\$89.99**

Small & Lightweight SWITCHING POWER SUPPLIES

S-25 - 12V DC, rated 25A continuous, 25A peak. Dim: 3" h x 7" w x 5" d; 4.2 lbs... **\$119.99**

S-25M - Same as above but with Volt and Amp meters..... **\$139.99**

S-30 - 12V DC, rated 25 Amps cont, 30 Amps peak. Dim: 3.75" h x 7" w x 9.5" d; 4.5 lbs ... **\$129.99**

S-30M Same with Volt/Amp meters..... **\$149.99**

POWER INVERTERS

2412-12 28V Aircraft - Converts 22-32V DC input to 13.8V DC output @ 10 amps. Eliminates need for a 28V battery for 12V **\$59.99**

2412-24 - Same as above, rated at 20A **\$89.99**



SS-330W



SWITCHING POWER SUPPLIES



SS-505

SS-330W Regulated, Variable Switching Power Supply - Provides 5 to 15 VDC at 30 amps continuous. Features: Dual meters indicate Volts/Amps; Binding posts on the front panel, Green power/Red protection LEDs; Detachable AC cord; Carrying handle; Built-in fan. Dim: 5.2" w x 4" h x 10.5" d; 4.3 lbs **\$169.99**

SS-505 Regulated, Variable Switching Power Supply - Recommended for those higher powered rigs like the 200W Kenwood TS-480HX that requires two 20-amp supplies or one bigger one weighing nearly 50 lbs. Provides 5 to 15 VDC at 50 amps continuous (SSA max). Features: Dual purpose Amp/Voltage meter; Binding posts on the rear panel; Low amperage spring loaded terminals and cigarette lighter jack on the front panel; Green power/Red Protection LEDs; Carrying handle; Built-in automatic fan. Dim: 9" w x 5" h x 12.5" d, 8.4 lbs **\$399.99**



SWITCHING POWER SUPPLY



GZV-4000 Switching Mode DC Power Supply with Built-in Speaker - 120V AC input; Variable output 5-15V DC with convenient center detent at 13.5V DC; 40 Amps continuous rating @ 100% duty cycle; Over temperature, overload, short-circuit protection with current foldback at approximately 42 Amps; Overload indicator; Selectable monitoring of voltage and current; DC terminals on rear, cigarette lighter jack on front; Filtered AC line. Dim: 8.25" d x 13" w x 4.5" h; 8 lbs **\$179.99**

SMALL POWER SUPPLIES



38-305



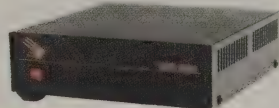
38-384

38-384 Light-duty DC Supply - Input: 115 V AC; Output: 13.8V DC regulated @ 4 Amps; Front panel binding posts; LED indicator, fused protection. Dim: 7.75" d x 4.75" w x 3" h; 5.5 lbs **\$54.99**

38-305

AC Adapter - Provides multiple low-voltage DC to operate various battery powered equipment requiring 3, 4.5, 6, 7.5, 9 or 12V DC with a 500ma. max. current rating. Multiple application plugs and 9V snaps fit most devices..... **\$12.99**

SAMLEX AMERICA'S SWITCHING POWER SUPPLIES



SEC-1223 23A Switching Power Supply - The perfect lightweight companion for 100 Watt-Class transceivers. Input: 110-120VAC; Output: 13.8VDC @ 23 Amps; UL approved. Also works on 200-240VAC input with a simple jumper change but UL approval is voided. Safety features: Current limiting; Short circuit protection; Overvoltage protection; Quiet temperature controlled cooling fan. Heavy-duty rear terminals, anodized black chassis and powder coat black steel cover. 3-year warranty. Dim: 7" w x 2.1" h x 7.5" d; 3.3 lbs **\$99.99**



SEC-1235M - Similar to 1223 above, but rated 30A continuous and 35A maximum. Separate Volt and Amp meters on front panel. Dim: 10.4" w x 2.1" h x 7.1" d; 5 lbs **\$139.99**

SEC-1235 - Same as to 1235M above, but without Volt and Amp meters **\$129.99**

SPS-1204UL

Switching Supply - Small and lightweight. Provides highly regulated power to a cigar lighter socket on the front panel and wire terminals on rear. Input: 110-125V AC, 13.8V DC output @ 3.5 Amps. Over-voltage protection and current limiting, illuminated on/off switch, UL and cUL approved. Dim: 2" h x 4" w x 6.3" d; 2 lbs **\$29.99**



DC to AC INVERTERS



SI-175HP (A) 175W 12VDC-110VAC Inverter Useful anywhere when 110VAC isn't available - boats, RVs, emergency, etc. Uses high efficiency switching mode design with modified sine wave output voltage and low idle power draw (<0.05A). Overload protection, low battery alarm and shut down. Cigar lighter; 10-15VDC input; 115 Volts RMS output; 175W (continuous), 350W (surge); Dim: 1.6" h x 4.7" w x 5.4" d; 1.8 lbs **\$29.99**

SI-400HP 400W 12VDC to 115 VAC Inverter (B) Similar to the SI-175HP, but higher 400W rating. Cigar lighter plug input connector and battery clamp included; Input Voltage: 10-15 VDC input; 115V RMS output; 400W (continuous), 800W (surge). Dim: 2.4" h x 6.3" w x 6.3" d; 2.9 lbs **\$49.99**

CELL PHONE CHARGER

FCP-1000 12V-1000mA Adapter/Charger - For operating or charging cell phones. Wall mount with cigar lighter receptacle; 110-120VAC input; 12VDC output; 1000mA, 19W output current. Dim: 2.25" h x 2.75" w x 4.25" d; 1 lb **\$7.99**



Price Guide
Used / Demo

Ham Radios

Antennas
Accessories

Antenna
Accessories

Publications

Other
Radios

Weather
& GPS

Audio / Video
& Tools

AES
Information

POWER LINE SURGE SUPPRESSORS



SUPER-7 – For spike suppression and noise filtering. Provides 18,000 amp surge suppression, and RFI/EMI filtering. Seven outlets, 7-foot cord, three diagnostic LED indicators **\$19.99**

SUPER-7-TEL – Same, but with 6 outlets and fax/modem protection for modular jacks .. **\$29.99**

ISOBAR-8 ULTRA Premium Surge

Suppressor – Rugged all metal housing won't break or burn. Isolated filter banks eliminate interference between connected equipment. Massive 1,200 joule, 96,000 amp spike suppression; Diagnostic alarm system indicates wiring faults, protection circuitry and power line status; 8 outlets, extra long 12 ft. cord.. **\$79.99**



PolyPhaser[®] CORPORATION



Power Line Extension Protector – In-line, multi-stage protectors provide multi-strike line protection, filtering and proper grounding for a 120V AC line. Two grounded outlets, power switch, and circuit breaker. Heavy duty, all aluminum grounded enclosure; 4.75 in. wide.

PLD0-120US15A 15 ft. cord; 120V/15A.....	\$169.99
PLD0-120US20A 6 ft. cord; 120V/20A.....	\$199.99

REMOTE CONTROL OUTLETS



RS-204U Remote Control Outlet System
These units plug into existing wall and allow remote controlled on/off switching for lamps, tools, appliances, etc. – drawing up to 20 Amps. Range is up to 80 ft. even through walls. Includes two outlets and remote control. Powered by two AAA batteries (not included) .. **Closesout \$29.99**

MFJ AC LINE VOLTAGE MONITOR



850B – Plug in to the nearest wall outlet and monitor your AC line voltage. The color coded scale lets you read from 95 to 135 Volts AC. There's a built-in AC socket so you still have the outlet available. Dim: 2.75" w x 4" h x 1.1" d. **\$24.99**

POWER PLUGS/ADAPTERS



P-212



P-212 2-Outlet Cigarette Plug Adapter – Allows use of two 12V accessories from 1 outlet..... **\$4.99**

P-212B Dual Cigarette Socket – Enables two 12 volt accessories to be used from one outlet, comes with replaceable 15 amp fuse **\$8.99**

P-12R 2-Contact Cigarette Plug – Solder type with strain relief and grip end **\$2.29**

P-12V Cigarette Plug – Cigarette lighter plug with connecting leads **\$2.29**

P-12X Cigarette Lighter Plug – Easy to use solderless plug. Wires crimp to terminals **\$1.69**



Power Pocket

Portable Power for emergencies, hamfests, hiking, etc. The 12V @ 2 Amp/hour sealed lead-acid rechargeable battery provides up to 6x longer talk time than standard packs. Recharges completely in 6 to 8 hours with supplied charger. Partial discharges can be recharged to 100% without memory effect. Radio conveniently plugs into included female adapter socket. Includes a compact carrying case with belt loop and shoulder strap.

Dim: 3.5" w x 1" d x 6.5" h; weight 30 oz. **\$66.99**

RECHARGEABLE BATTERIES



Maximum life • Memory-free operation
Rechargeable hundreds of times
Excellent for high current applications

MAHA RECHARGEABLES

MH-R-AA4 – 4 pack of 1.2V 2700mAh rechargeable AA NiMH batteries in plastic case..... **\$14.99**

AAA-T – 1.2V 650mAh rechargeable AAA NiMH batteries each **\$2.99**

MH-96V200 – 9.6V, 200mAh NiMH each **\$12.99**

MFJ RECHARGEABLES

92AA01 – 1300mAh NiMH AA's each **\$2.99**

92AA10 – Same as above 10-pack **\$24.99**

REPLACEMENT HT BATTERY PACKS

MAHA's replacement battery packs can increase your handhelds performance up to two times. Refer to the Price Guide under MAHA for a list of battery packs for Yaesu, Icom, Kenwood, and Standard radios.

MAHA CHARGERS



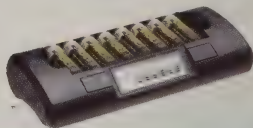
MH-C777 PLUS II

MH-C888

MH-C888 Universal Drop-In Rapid Charger and Conditioner – Incorporates special FLEX negative pulse feature to prevent crystallization when charging 4.8-12V NiMH/NiCad battery packs. Deep-conditioning feature does three consecutive charge/discharge before final charge. Built-in switch for AC power supply and 12V cord..... **\$59.99**

MH-C777 PLUS II Smart Universal Charger and Analyzer/Conditioner – Charges most NiMH, NiCad, Li-Ion and Li-polymer battery packs. Built-in circuitry with LCD status automatically senses battery voltage. Includes external 110V switching power supply and 12V cord with cigarette lighter. Discharge-only feature retains discharged battery capacity on screen; Enhanced Li-Ion algorithm reduces charging time..... **\$74.99**

MH-K5000 One Hour Travel Charger – Worldwide use with an integrated 100-240V, 50/60 Hz switching supply. Revises and conditions poorly performing batteries. Four charging phases: Startup charging; Rapid charge; Top-off charge; and Maintenance charge. Batteries may be left in for extended periods without overcharging. Recharge (2) AA/AAA batteries around one hour; (4) AA/AAA batteries in about two hours. Compact, lightweight (4 oz.). Includes (4) 2500 mAh NiMH batteries **\$39.99**

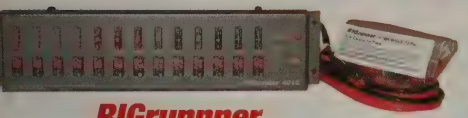


MH-C801D Eight Cell 1-Hr Charger – Features EIGHT independent circuits that charge ONE EIGHT AA or AAA batteries in any combination. Incorporates a large LCD screen displaying the charging status of each battery (Charge, Done, Conditioning, etc) replaces the usual LED indicators. Choose between a Soft Charge and Fast Charge mode. The soft charge delivers the highest battery life and allows 100% compatibility with older lower capacity batteries. The fast charge allows eight batteries to be fully charged to their maximum capacity in around one hour. A high-rate battery conditioner will Charge, Deep-discharge and Recharge batteries automatically for maximum rejuvenation. Includes a universal 110-240V 50/60Hz AC switching power supply..... **\$84.99**

633 Intelligent Charger

Charges 2 or 4 NiCad and NiMH AAA, AA, C, D (charging 2 at a time) and 1 or 2 9V cells. Ultra-fast, safe constant pulse current charging; IC detects both +DV and -DV, and monitors the voltage level during charging. Discharge Mode deep conditions to correct memory, and can rescue weak or dead batteries. Process ends with a final trickle charge. 120 VAC or 12 VDC **\$29.99**





RIGrunner

convenient and safe way to connect to a 12V DC source and distribute it to all equipment, base or mobile to messy binding posts, frayed wire connections, black tape or short circuits. Eliminates those wall warts.

Now Anderson PowerPole® crimp or solder connectors provide a safe secure, hot connect, polarized, color keyed, genderless connector system

5 models, conservatively rated at up to 80 amps

Each outlet is individually fused with an automotive ATC/ATO fuse. Open fuse LED shows status

Conforms to ARES, RACES, RSGB and ARRL Recommendation for high current 12VDC connectors

R/8012/C Intelligent DC Power Panel, 12 outlets, 80 Amps maximum – DC voltage monitor and alert, internally detachable 6 ft. 8 ga. power supply cable and 12 pair of Anderson Powerpole® crimp solder connectors..... **\$149.99**

R/4010S/C DC Power Panel, 10 Outlets, 40 Amps maximum – One "always on" outlet and nine automatic or manually-controlled switched outlets. Includes a on/off system controls entire station with the power button on your rig. Status LED and audio alert voltage monitor. Includes 6 ft. power supply cable and 12 pair of Powerpole® connectors..... **\$139.99**

R/4012/C Intelligent DC Power Panel, 12 outlets, 40 Amps maximum – LED voltage monitor indicates normal voltage, LEDs and audio alert for over or undervoltage conditions. Includes 6 ft. power supply cable with 12-pair of Anderson Powerpole® connectors. Dim: 11.8" w x 2.7" h x 1" d..... **\$129.99**

R/4008/C 8 Outlets, 40 Amps maximum – LED and audio alert voltage monitor. For small or mobile installations or as expansion unit. 12-pair crimp or solder connectors. Dim: 5.75" w x 2.7" h x 1" d..... **\$109.99**

R/4005/C 5 Outlets, 40 Amps maximum – A DC power panel for small mobile installs or as expansion for existing panel. Includes 6 ft. supply cable and 6-pair of connectors. Dim: 5.75" w x 2.7" h x 1" d..... **\$79.99**



PG-40 PG-40S

PG-40 PWRgate Backup Power System

must for the Ham Shack, Repeaters, Emergency communications Centers, etc. Keeps equipment operational during power failures by instantly switching to back-up 12V battery or power supply (not supplied). Rated up to 40 Amps continuous and a built-in mini-gate keeps the connected battery fully charged and ready for emergency operation. Output via Anderson PowerPoles®, connectors are not supplied. Dim: 1.64" h x 3.9" w x 5" d..... **\$69.99**

PG-40S Super PWRgate 12V Backup Power System similar to PG-40 but includes a built-in four-stage battery charger with selectable current rates of 1, 4, 7 or 10 amps. The charger circuit is optimized for use with AGM and AGM type batteries, but will keep flooded lead acid and marine type batteries near full charge as well. The Super PWRgate and a connected power supply may also be used to charge a battery that is powering a radio in operation..... **\$129.99**

www.westmountainradio.com

C30/PK/12
C45/PK/12

Anderson PowerPoles®

C30/PK/12 – 30A PowerPoles®..... 12 pair **\$11.99**

C45/PK/12 – 45A PowerPoles®..... 12 pair **\$17.99**

PWR/TOOL Powerpole® Crimp Tool – Crimps 15, 30 & 45 Amp contacts. Ratcheted for high strength, low resistance crimps every time..... **\$49.99**

CBA-2 Computerized Battery Analyzer

Test virtually any type or size of battery, any chemistry, any number of cells up to 48 Volts. Capable of up to 40A or 150W, whichever is higher. Can determine battery capacity in amp-hours, and graphically displays and charts voltage versus amp-hours which may be saved and printed. Quiet fan cooling and LED status indicators. A micro-controller provides plug-and-play with your computer. Includes program on CD-ROM and 6 ft. USB cable..... **\$109.99**

CBA/TEMP Temp Probe for CBA-2..... **\$11.99**

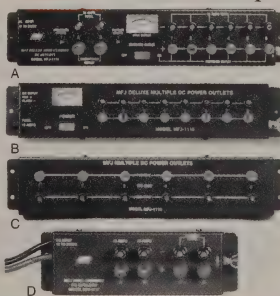
RT-1 RigTalk USB to serial converter with TTL output – Provides USB Serial control or programming of any radio with a TTL level interface, CAT or CI-V. Compatible with USB 2.0 or lower. Convenient pocket sized USB dongle design. Comes with a CD-ROM provides plug and play installation and includes a collection of third party software. Cables available for all ICOM and TEN-TEC CI-V controllable radios and newer YAESU CAT..... **\$49.99**

CATMINI/CBL Yaesu CBL for RT-1..... **\$12.99**

CIV/CBL ICOM/TEN-TEC Cable/RT-1..... **\$8.99**

WHAT/MTR – Connects directly into any circuit equipped with Powerpole connectors. LCD readout shows Voltage, Amperage, Amp/hours and Watts automatically and simultaneously. Reads up to 60 Volts DC, 75 Amps and 94 Amp/hours. Dim: 3.8" w x 2.1" h x 0.9" d..... **\$69.99**

MFJ High Current DC Multi-Outlet Strips



Distributes high current 12V DC power for radios and accessories to your station's main DC power source. Keeps everything neat, organized and safe. Prevents fire hazards by keeping wires from tangling and shorting out. All outlets fused, switched and RF bypassed.

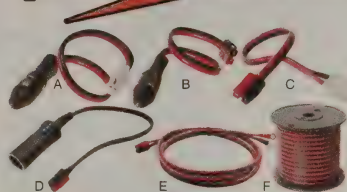
1118 (A) Deluxe Multiple DC Power Strip – Distribute 12V DC to (2) radios and (6) or more accessories. Provides (2) pairs of heavy-duty 30 Amp, 5-way binding posts, all fused and RF bypassed, and (6) pairs of 15 Amp 5-way binding posts for accessories. Master fuse, on-off switch with power LED, built-in 25V DC voltmeter, 6 ft. 8 gauge cable. Dim: 12.5" w x 2.75" h x 2.5" d..... **\$79.99**

1116 (B) – Like the 1118 but without 30 Amp posts..... **\$54.99**

1112 (C) – Similar to the 1116 but without on-off switch, power LED, voltmeter or fuse. Dim: 12.5" w x 2.75" h x 2.5" d..... **\$39.99**

1117 (D) – Like the 1118 but without meter, power LED or on-off switch. Powers up to (4) radios with (2) 35 Amp single posts and (1) 35 Amp dual post. Dim: 8" w x 2" h x 3" d..... **\$59.99**

power.werx.com



DC Power Connections

CIG20EM515A Cigarette Lighter Plug (A) – 5 ft. fused (15 amp AGC) to OEM-T Male plug..... **\$14.99**

CIG2PP515A Cigarette Lighter Plug (B) – 5 ft. fused (15 amp AGC) to Powerpole..... **\$14.99**

PP20EM5 (C) – 5 ft. Powerpole to OEM "T" Male connector, 15 amps..... **\$14.99**

SOCPP115A (D) – 1 ft. Cigarette Lighter Socket, internal ATC 15 amp fuse, Powerpole end..... **\$14.99**

PP452RING10G (E) – 6 ft., 10 gauge Power Supply Cable with 45 amp Powerpoles and 1/4 inch gold plated Ring terminals..... **\$13.99**

Red/Black DC Zip cord (F)

Made for use in 12-volt DC power applications with extra flexible soft bare copper stranding for maximum flexibility and conductivity. The automotive grade PVC insulation is oil, gas resistant and usable over a -40 to 175°F range.

RB-12-25 25 ft. 12 gauge..... **\$22.99**

RB-14-25 25 ft. 14 gauge..... **\$14.99**

PowerPole® Connectors

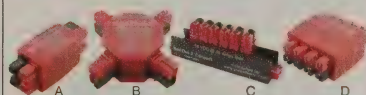
High current, low loss electrical connectors which can be soldered or crimped. The 30 Amp rated terminals fit 18 to 12 ga., and 45 Amp rated, up to 8 gauge wire. ARES, RACES, RSGB accepted.

PPRB3010 10 pair 30A Powerpoles..... **\$9.99**

PPRB3025 25 pair 30A Powerpoles..... **\$19.99**

PPRB4510 10 pair 45A Powerpoles..... **\$14.99**

PPRB4525 25 pair 45A Powerpoles..... **\$29.99**



Red-Dee 2M Power Splitters

A new solution for your power distribution when using PowerPole equipped cables. These assemblies are designed for minimum power loss and convenience. All are rated to handle 45 amps at 58 VDC. Not fused.

PS-4 (A)..... **\$14.99**

PS-6AA (C)..... **\$31.99**

PS-4 Plus (B) **\$14.99** **PS-8 (D)**..... **\$24.99**

Price Guide
Used / Demo

Ham Radios

Ham Radio Accessories

Antenna Accessories

Publications

Other Radios

Weather & GPS

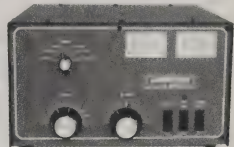
Audio / Video & Tools

AES Information

811A HF Amplifiers

- Covers 160-15M, including WARC band
- HD silicon steel core Plate Transformer (17 lbs.)
- Tuned Input; ALC Control; Quiet Air Cooling
- Dual Meters (Plate Voltage, Grid and Plate Current); Vernier Reduction tuning
- Dim: 15.5" d x 13.75" w x 8.25" h; Weight: 52 lbs.

NOTE:
10/12 meter
Modification Kits for
Ameritron Amps are
available to licensed
Hams direct from
Ameritron



AL-811 — Uses (3) 811A transmitting tubes. Delivers 600W PEP output SSB/500W CW **\$669.99**

AL-811H — Uses (4) 811A transmitting tubes. Delivers 800W PEP SSB/600W CW **\$799.99**

3-500Z HF Amplifier

- Covers 160-15M, including WARC bands
- A Full KW PEP! (70% efficiency)
- HD silicone steel core Plate Transformer (26 lbs) and Computer Grade capacitors
- Tuned Input; Adjustable ALC; Air Cooled
- Dual Cross-needle meters (SWR, PEP power, Plate voltage, Grid and Plate current)
- Operates from 90-140VAC or 205-250VAC
- Dim: 15.5" d x 14.5" w x 18.5" h; Weight: 48 lbs.



AL-80B — Uses a single 3-500Z transmitting tube. Delivers 1000W PEP output SSB/850W CW. The high-voltage secondary can be wired to reduce plate voltage for efficient operation below 400W for use outside the USA **\$1299.99**

Solid State HF Mobile Amplifier



ALS-500RC

ALS-500M — Increase your HF mobile power up to 500W PEP/400W CW. Continuous coverage 1.5-22 MHz. Uses (4) 2SC2879 RF power transistors. Instant bandswitching, no tuning, no warm-up and SWR protected. Runs nicely from 13.8 VDC mobile electrical system drawing 80 Amps peak current. Dim: 3.5" h x 9" w x 15" d; 7 lbs. **\$749.99**

ALS-500RC Remote Head — For ALS-500M amplifiers SN:13049 & up. Features: Band select, On/Off & DC Current meter, TX/overload LEDs.... **\$49.99**

Solid State Base Amplifier



ALS-600 — No Warm Up, No Tune Up — Just turn on and operate. Uses (4) 2SC2879 RF power transistors with 600W PEP/400W CW output and continuous coverage 1.5-22 MHz. SWR and power protected. Includes AC power supply. Dim: amp and supply both 6" h x 9.5" w x 12" d. Wt: 30 lbs **\$1129.99**

ALS-600S — Similar but with ALS-600SPS switching power supply; Weight: 22.5 lbs **\$1249.99**

AMERITRON

3CX-800A7 HF Amplifiers

- Cover 160-15M, including WARC bands
- HD silicon steel core Plate Transformer (32 lb.)
- Tuned Input; ALC Control; Air Cooled
- Dual illuminated Cross-Needle meters show SWR, Plate voltage, Grid and Plate current
- Operates on 90-140 VAC, 200-250 VAC
- Dim: 8.5" h x 16.5" w x 13.75" d; Weight: 52 lbs.



AL-800 — Uses as a single Eimac® 3CX800A7 tube. Delivers 1250W PEP SSB output **\$1699.99**

AL-800H — Uses (2) Eimac® 3CX800A7 tubes. Delivers 1500W PEP SSB output **\$2499.99**

572B HF Amplifier

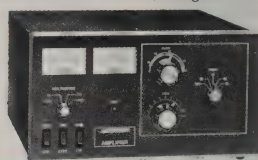
- Covers 160-15M, including WARC bands
- Heavy Duty silicone steel core Plate Transformer
- Instant 3 second warm up
- Tuned Input; ALC Control; Air Cooled
- Dual illuminated Cross-needle meters show SWR, Plate voltage, Grid and Plate current
- Multi-voltage Operation
- Size: 8.5" h x 15.5" w x 14.5" d; Weight: 40 lbs



AL-572 — This Near Legal Limit™ amplifier uses (4) rugged 572B tubes. Delivers 1300W PEP SSB and 1000W CW continuous output for about 65% of the price a full legal limit amplifier **\$1399.99**

Super Legal Limit Amplifiers

- Cover 160-15M, including WARC bands
- Strong Stainless Steel Chassis
- Highly efficient PeterDahl tape wound Hypersil® Plate Transformer, up to 2500W
- Grid and Plate meters show drive, ALC, Pow output and PEP Watts
- Dim: 18" h x 17" w x 10" d; Weight: 77 lbs.



AL-1500 — Uses a single Eimac® 8877 Ceram tube. Only 65W of drive power delivers full leg 1500W CW output. Time-delayed start protects tube and over-current shut-off removes the drive amplifier is mistuned **\$2699.99**



AL-1200 — Uses Ham radio's toughest tube, the Eimac® 3CX1200A7. It has a 50W control grid dissipation and can deliver more than 2500W two tone output for 1/2 hour **\$2349.99**



AL-82 — Uses (2) 3-500Z tubes. Delivers 1500W output which is more than other 3-500Z linear model because their lighter weight power supplies can't use these tubes to their full potential **\$2299.99**

AMERITRON ACCESSORIES



ATP-100/102



QSK-5



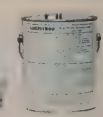
ARB-704



ICP-120/240



ADL-2500



ADL-1500



AWM-30

ATP-100

Tuning Pulser — Safely tune up RF power amplifiers. Prevents overheating, tube damage, power supply stress and component failure **\$59.99**

ATP-102

Deluxe Tuning Pulser — Similar but with variable pulser and delay **\$69.99**

QSK-5

Pin diode T/R Switch — Faster than a vacuum relay. Connects externally to HF RF power amplifiers. Handles 2.5 KW PEP/2 KW CW **\$339.99**

QSK-5PC

PC board version **\$259.99**

CF-5

Cooling Fan — for QSK-5 **\$39.99**

ARB-704

Interface Buffer — Prevents damage to radio's internal relay contacts resulting from keying amplifiers with too much control voltage, excessive current or voltage spikes on the relay control line. Compatible with transceivers that provide a ground on transmit. Use ARB-70412 for IC-706/IC-7000 only each **\$59.99**

ICP-120/240

In-rush Current Protector — Stops power-on in-rush current surge and absorbs momentary voltage spikes. Use ICP-120 for 110-120V; ICP-240 for 220-240V each **\$79.99**

ADL-2500

Dry Dummy Load — Rated 2500W average power for 1 minute on, 10 minutes off, 300W continuous. Fan cooled, low VSWR up to 60 MHz **\$199.99**

ADL-1500

Oil Filled Dummy Load — Handles 1500W for 5 minutes. Usable with low VSWR up to 400 MHz. Includes oil and container as pictured **\$74.99**

AWM-30

SWR/Wattmeter — Perfect for making linear amplifier power measurements. A lighted cross-needle meter to show true Power or Average on 300W and 3000W ranges up to 30 MHz. Remote sensor. Uses 9V battery or 12VDC **\$149.99**

RCS-4

Remote Coax Switch — Selects one of four outputs by supplying control voltages thru the coaxial cable. Rated 1500W from 1.8 to 30 MHz. **\$139.99**

RCS-8V

Remote Coax Switch — Selects one of five outputs using one feedline and 6-wire control cable. Rated 1KW @ 150 MHz, usable to 250 MHz **\$149.99**

RCS-8VN

Same as RCS-8V but N-type connectors instead of SO-239 **\$159.99**

RCS-10

Remote Coax Switch — Selects one of eight outputs by supplying control voltages thru a four conductor cable. Rated 5KW from 1.8 to 30 MHz **\$169.99**

Various "Plug & Play" Interface Cables for Ameritron Amps - See Price Guide

HF POWER AMPLIFIERS



PW-1 HF/50 MHz All Band 1 KW Linear Amplifier – Frequency range: 160-15M/6M. Power output operating on 180-264V AC is 1000 PEP SSB 1000W CW/RTTY/SSTV @ 100% duty cycle, QSK with 100W drive. Power drops to 500W PEP/500W at 120-132V AC input. Automatic band change; Built-in all band automatic antenna tuner; Automatic AC voltage selector. Current, voltage, temperature, high SWR and output power protection; Wide range ALC adjusts to almost any rig; Control head is detachable from main unit (shown); Built-in power supply. Two input connectors and four output connectors.

Dim: 14" w x 10.5" h x 14.5" d; 56 lbs **\$4699.99**



VL-1000/VP-1000 QUADRA SYSTEM HF/50 MHz Linear Amplifier with Automatic Antenna Tuner and Switching Power Supply Solid-state design uses MRF-150 MOSFET devices in a four unit push-pull configuration to produce 1000W SSB/CW output (500W SSB/CW/FM on 6 meters) with 80W of drive. Frequency range: 160-15M, 6M amateur bands. Automatic bandswitching with Yaesu FT-1000, FT-1000MP, FT-1000MP MK-V, MK-V FIELD, FT-920, FT-2000 series and FT-9000 series. 16-bit Control CPU provides high speed antenna tuning with memory. The huge dot-matrix LCD provides amplifier-status information, including peak and average power output, voltage, current, and a panoramic SWR monitor, displaying "before tuning" and "after tuning" SWR information. Two input and four output antenna jacks output jacks for versatile equipment and antenna configurations.

Dim: (Amp) 16.25" w x 5.9" h x 17.7" d, 46.3 lbs. (PS) 16" w x 5.9" h x 15" d, 32.2 lbs..... **\$3899.99**



52-96 SG-500 MARIPOWER CUBE™ Microprocessor Controlled Linear Amplifier



for 500W operation in your Base station or Mobile. Designed for maximum reliability and for unattended operation where access is limited. Microprocessor control automatically selects band; adjusts amplifier input sensitivity; monitors all parameters for faults (heat, high VSWR, under voltage, etc.); automatic shutdown at fault. Front panel LED status indicators. The most advanced self-protection on the market. Covers 1.6 to 24MHz, rated at 500W PEP SSB and 500W CW (with optional fan) with 80W drive. Less than 1 cubic foot of space. Requires 14VDC 40A average SSB, 90A peak/CW. Dim: 6.1" h x 11.4" w x 12.25" d; 21 lbs. **\$1299.99**



VHF/UHF POWER AMPLIFIERS

Models covering 6 Meters thru 70 cm for Base, Mobile, Repeater or ATV operation

Rugged construction • 12V DC operation • FM mode (SSB/CW on some models) • Built-in 20dB gain GaAsFET Receive preamplifier • Overdrive and high temperature protection • Remote control capability • Various input and output levels

Model	MHz	Max Input	Max Output	Pre-amp	Amps	Price
A-1015G	50-52	1-15W	150W	23	yes	\$359.99
B-34	144-148	8W	35W	4	no	89.99
B-34G	144-148	8W	35W	4	yes	109.99
B-1018G	144-148	0.2-15W	160W	25	yes	369.99
B-2518G	144-148	20-35W	160W	25	yes	299.99
B-2530G	144-148	10-35W	300W	48	yes	679.99
B-5018G	144-148	20-60W	160W	22	yes	299.99
B-5030G	144-148	0.5-50W	300W	48	yes	669.99
B-310G	144-148	0.25-8W	100W	15	yes	209.99
B-320G	144-148	2.5-50W	200W	25	yes	459.99
BD-35	144/440	1-7W	45/35W	7	no	159.99
C-22G	222-225	2W	20W	5	yes	159.99
C-211G	222-225	2W	110W	20	yes	329.99
C-1012G	222-225	10W	120W	25	yes	329.99
C-1022G	222-225	10W	220W	40	yes	699.99
C-2512G	222-225	30W	120W	25	yes	309.99
D-15N	425-450	2W	15W	3	no	189.99
D-26N	430-450	2W	60W	12	no	279.99
D-1010N	430-450	10W	100W	15	no	379.99
D-3010N	430-450	30W	100W	20	no	349.99
D-1010ATV	430ATV	10W	100W	20	no	399.99

N = Type-N connectors

More MIRAGE amps...

Continuous duty Repeater Amplifiers for 6, 2, 1-1/4 meters, 70 cm, 450 MHz & ATV.

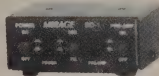
See the Price Guide under MIRAGE

REMOTE HEAD

RC-1 – Remote control Mirage amplifier functions: Power and Preamp

On-Off, FM/SSB mode. Dim: 1.75" x 3.75" x 2.5". Includes 18 ft. control cable..... **\$49.99**

RC-2 – for B-XX18G series amplifiers.. **\$49.99**



DOCKING BOOSTER

B-24G – Slide in an HT with 0.5 to 8W output for an instant 50W Mobile or Base. station. Replaces HT battery with selectable voltages that adapt to most HTs. Built-in 18dB gain GaAsFET preamp with On-Off switch and LED indicator. Transmit LED. Place on dashboard or desk, or mount with the supplied tilting bracket. Uses 13.8 VDC @ 7A. Dim: 4.25" h x 3.35" w x 3.25" d. **\$109.99**

See Price Guide under MIRAGE

for available Handheld adapters for the B-24G



MIRAGE

2 Meters All Mode



Power Curve – typical for the B-5018-G												
IN	0.5	5	8	10	15	20	25	35	50			
OUT	---	52	99	119	125	130	135	145	160			

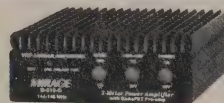
Power Curve – typical for the B-2518-G												
IN	0.5	5	8	10	15	20	25	---	---			
OUT	5	56	91	111	135	153	160	---	---			

Power Curve – typical for the B-1018G												
IN	0.5	5	8	10	---	---	---	---	---			
OUT	30	150	155	160	---	---	---	---	---			

Power Curve – typical for the B-2530G												
IN	1	3	5	10	25	---	---	---	---			
OUT	30	95	140	250	300	---	---	---	---			

Power Curve – typical for the B-5030G												
IN	1	3	5	10	25	50	---	---	---			
OUT	---	---	55	150	220	300	---	---	---			

2 Meters All Mode



Power Curve – typical for the B-310G												
IN	.25	0.5	1	2	4	6	7	8	---			
OUT	25	50	75	95	100	100	100+	100+	---			

2M/440 Dual Band



Power Curves – typical BD-35 output power												
Watts Out (2M)	30	40	45	45+	45+	45+	45+	45+				
Watts Out (440 MHz)	16	26	32	35+	35+	35+	35+	35+				
Watts In	1	2	3	4	5	6	7	8				

MIRAGE

LOW NOISE GaAsFET RECEIVE PREAMPS

High gain ultra low noise GaAsFET preamps for boosting weak signals on VHF and UHF bands and compensating for feedline loss. Selectable gain prevents receiver intermod. Provides 15 to 22 dB Gain with a Noise Figure of less than 0.8 dB. Installs in-line with automatic T/R switching up to 100 Watts. In-shack or mast mount models. Voltage: 12-15V DC; N-Connectors.

In-Shack Models – **\$139.99** each

KP-1/6M – 50-54 MHz **KP-1/2M** – 144-148 MHz

KP-1/440 – 430-450 MHz

Mast Mount Models – **\$184.99** each

KP-2/6M – 50-54 MHz **KP-2/2M** – 144-148 MHz

KP-2/440 – 430-450 MHz



Price Guide
Used / Demo

Ham Radios

Ham Radios
Accessories

Antennas
Accessories

Antenna
Accessories

Publications

Other
Radios

Weather
& GPS

Audio / Video
& Tools

AES
Information

KENWOOD



HS-6



HS-5

HS-5 Deluxe Headphones – Specifically designed for communications. Provides a natural sound and pads eliminate pressure permitting long hours of fatigue free listening. To increase the volume level when using in a noisy room or for privacy, you can replace the sponge-type earpads with soft vinyl leather pads to increase sound by about 10dB while sealing out noise. Includes both types of earpads and 6 ft. coiled cord with 1/4 in. phone plug. Impedance: 8; Power: 200mW @ 1000 Hz max. input; Response: 150-4000 Hz; 13 oz. **\$79.99**

HS-6 Lightweight Headphones – Response: 100 to 10,000 Hz; Impedance: 12.5; 6 ft. straight cord with 1/4 in. phone plug; weighs 4 oz. **\$59.99**

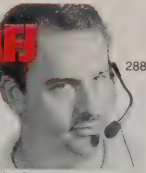
YAESU

YH-77STA Stereo

Headphones – Impedance: 35 ohms; 4 ft. straight cord with 3.5mm plug and 1/4 in. phone plug adapter; weighs 4.4 oz. **\$59.99**



MFJ



288



292Y

288 Deluxe Headset Microphone – Lightweight, comfortable for Yaesu, Icom and Kenwood units. Superb transmit audio, and earphone tonal quality. Foam covered microphone element is attached to headset with a flexible rubber boom allowing proper positioning. PTT switch on the 6 ft. cord, hold or attach to clothing. (specify radio) **\$24.99**

292Y Featherweight™ Earphone/Microphone Has an earbud earphone and a tiny thumb-sized microphone/PTT switch that's built right into the 4 ft. cord. For Icom Q7A, Yaesu FT-10R, FT-40R, FT-50R and VX series. (specify radio) **\$17.99**



392B Headphones – Perfect for Amateur and Shortwave listening. Superbly padded headband and ear cushions and only 8 oz. for comfort. High-performance drivers with full 100 – 24,000 Hz response provide enhanced sound and speech fidelity. Earphones have individual volume controls. Includes a 9 ft. cord with gold-plated plug and 1/4" adapter. **\$24.99**

297 Desk Microphone

A sensitive condenser mic element coupled with a low-noise amplifier. Speech tailored; select SSB Mode for smooth, articulate



297

DX or Full-range Mode for clear FM or AM. Flexible microphone boom, momentary and locking PTT switch. On-the-air LED indicator, frequency up/down switch. Requires two AA batteries. Dim: 4" w x 1.25" h x 6" d (base). **\$69.99**

5397 8-Pin Adapters for 297 – Available for Yaesu Icom and Kenwood units... (specify radio) **\$17.99**

295 Mini Speaker/Microphone – Plugs into popular Yaesu, Icom and Kenwood HTs. A non-directional electret element provides great audio quality. LED shows transmit (specify radio) **\$16.99**

MIDLAND®

High Performance Mobile speaker



- Clear crisp sound
- Large 15 watt capacity
- 4-ohm
- Swivel base
- 5.5" w x 5.5" h
- Cord with 3.5mm plug

21-406 \$22.99



Headsets • Boom Microphones • Hand Microphones • Microphone Elements

See the Price Guide under HEIL for Prices, other Models and Accessories



GM-Series Provides full-range, smooth and articulate audio for AM, FM and "HI-FI" SSB modes. The 60Hz to 16kHz frequency response, with a +4 dB midrange peak @ 2kHz, produces brilliant articulation for clear, understandable SSB audio, and adds a well-balanced robust low end. **Dual element** - the GM comes with your choice of a second element (HC-4 or HC-5). A "wide-narrow" switch selects the second element. Die-cast body, high lustrous black lacquer and topped with a crushproof golden grill, and a "soft touch" PTT button. Requires a CC-1 cord.

HM-10 DUAL Whether DX or Rag Chews, these are the great sounding Heil microphones you have been hearing on the Ham bands for years. The HM-10 DUAL features both HC-4 "DX Dream Machine" and HC-5 "Full Range Articulation" elements. The HM-10 DUAL elements (switch selectable), give the user a choice for varying conditions. CC-1 cord is required.



Handi-Mics Five clean and clear sounding models each for different applications, mating to different rigs and inputs. A PTT switch is incorporated on four of the models. Only 4 in. tall, and the required Heil CH-1 series shielded cables are 4 ft. long (2 ft. coiled, 2 ft. straight). Includes dash holder, boom clip and a windscreen.

PRO-SET
Quiet Phone
Series



HQP
Quiet Phone



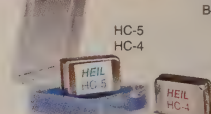
PRO-SET
Plus



BM-10
BoomSet

BM-5
Single
BoomSet

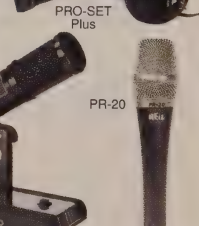
HC-5
HC-4



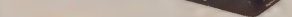
PR-40



PR-20



PR-780-PTT



PR-20 Professional Dynamic Cardioid Microphone – For commercial broadcast and live sound reinforcement applications which require a smooth flat 40 Hz to 18 kHz response.

PR-40 Large Diameter Studio Microphone New element technology with a response from 28 Hz to 18 kHz with a mid-range rise for gorgeous vocal articulation. Stand not included.

PR-780-PTT Professional Quality Dynamic Cardioid Studio Microphone – For high end transceivers: ICOM IC-7800, the PRO-series, the KENWOOD TS-2000, TS-850/870 and YAESU FTDX-9000 using the correct CC-1 XLR mating cables. Uses a dynamic broadcast element for a beautiful wide frequency response and high articulation. Includes CB-1 PTT base.

HC-5 Full Range Articulation Element

Makes your rig sound better and more intelligible to the listener by providing full articulation and more clarity than a factory microphone can provide. A 350 to 4000 Hz response with a sharp roll-off under 300 Hz and above 3100 Hz, with a peak at 2100 Hz produces very clear, easy-to-understand audio that will get you lots of on-the-air compliments.

HC-4 The "DX Dream Machine" Element Produces super audio clarity with more PUNCH for difficult conditions like contests, DX & weak-signal VHF/UHF work. Outstanding results on pile-ups, aurora and backscatter where SSB signals need maximum penetration and intelligibility. Designed with 500 to 3800 Hz response with a 10dB peak @ 2000 Hz & sharp 12dB per octave roll off @ 500 Hz which gives it a sharp sound that really penetrates under difficult conditions, but is not real pleasing to the listener for everyday rag chewing.



Noise Eliminating Speaker



HEAR IT - Incorporates DSP technology that is fully adaptive to any change in background or man-made noise levels, and effectively attenuates it up to -20dB. This dramatic drop in noise level results in clearer and less fatiguing audio. The 'Hear It' has the capability to reduce noise equal to, or better than, DSP systems built into several popular radios. If your radio already has DSP, the 'Hear It' will provide additional improvement in copy. If it doesn't have DSP, there will be a huge improvement in readability. Eight user-selectable noise cancelling levels, or cancelling can be switched off entirely. Plugging headphones or another speaker into the audio bypass jack mutes the speaker, but retains DSP noise reduction. A built-in amplifier provides 2.5W of audio power. Requires 12-28VDC @ 500mA. Includes a 6.5 ft. lead with 3.5mm mono plug. Dim: 4.5" w x 2.75" h x 2.25" d **\$159.99**

In-Line DSP Module



IN-LINE MODULE - Provides the same audio features as the 'Hear It' speaker above, but without the speaker. Built-in 5W audio amplifier for your station speaker. Has 3.5mm mono and RCA phono audio input/output jacks & headphone jack. Requires 12-24VDC @ 500mA. Includes a 3.5mm to 3.5mm audio cable and fused power leads. Dim: 6.75" w x 3.35" h x 1.4" d; 1 lb **\$199.99**

ADSP² Speaker



ADSP² - An affordable solution that will deliver top of the DSP Noise Reduction for ANY transceiver. The ADSP² speaker has two convenient push button switches. One button toggles between 0, 13dB or 6dB of noise cancellation and the second selects 1 of 3 bandpass filters (100, 500 & 1500 Hz). It provides -45dB out of band reduction with one-click operation. There is a headphone jack for private listening. The black metal enclosure features an adjustable stand and wired cable for audio input (mono mini plug) and for 12 VDC @ 110-500mA input. Dim: 3" h x 5" w x 2.5" d; 11 oz **\$160.99**



DSP-599ZX DSP Noise Filter - Digital Signal Processing provides superior reduction of QRM and QRN. Examines and measures signal and noise correlation, dynamically filtering out undesired noise. Great for VHF/UHF weak signal and aurora work when it can provide a remarkable improvement in clarity to fluttery or distorted SSB signals. Filter settings are displayed on the LCD; Optical encoders for continuous tuning of filters; Data and bandpass filters with steep skirts and linear phase response for CW and RTTY; Bandwidth Range: 10 Hz to 600 Hz; Center frequencies 200-2150 Hz, wider filters allow easy tuning and listening to multiple CW signals; Data filters: RTTY, AMTOR, PacTOR, G-TOR™, HF Packet, SSTV, WeFAX, SITOR and CLOVER; Test instrument mode provides audio sine wave generator, audio millivoltmeter and two-tone audio generator **\$436.99**



ANC-4 Antenna Noise Canceller and Diversity Combiner - Effective with any transceiver (250W max.) or receiver from 500 kHz-80 MHz. Reduces or eliminates power line, computer and TV noise by cancelling it before it affects the receiver AGC circuits. Connects between your antenna and radio with a second antenna acting as a noise pickup. Controls adjust signal phase and magnitude from the two antennas to effect noise cancellation. It also can operate as an active antenna using a noise antenna and noise gain control. And, it can be used as a diversity combiner to pick up enhance weak signals or null interfering signals. 11-16V DC @ 300 ma. Dim: 1.7" h x 6" w x 4.3" d; 2 lbs **\$209.99**



ESP-1 Microphone Audio Processor - Now you can improve your communications clarity with the addition of Compression (AGC), a Noise Gate, plus Bass and Treble adjustment. A backlit LCD displays all functions for monitoring during operation. The input/output level controls make it easy to configure the ESP-1 for any transceiver with an 8-pin microphone connector. EZ to operate, there are no complicated switching or unnecessary functions... **\$225.99**
COMPRESSION/AGC: Adjustable from 0 to 14 dB, keeps modulation constant with varying speech level. Increases average speech level, adds punch and intelligibility.
NOISE GATE: Eliminates background noise present in the ham shack (blowers, A/C units, conversation, etc.) during pauses in speech.
BASS & TREBLE: Adjust to your personal preference by listening to the ESP-1 output with headphones using the rear mounted jack.



1263 Microphone Control Center - Mix and match any two microphones to any two transceivers. The microphones or transceivers can have 8-pin round or modular connectors. Eliminates swapping connectors. Plug in a PTT foot switch or let a computer or voice keyer control the PTT line. Also plug in headphones and an external speaker. The headphones are always active and a volume control eliminates the need to readjust the rig's volume when switching the speaker on. An input jack and on/off switch are provided to insert external audio into the microphone audio input line. Great for inputting sound card, SSTV, AFSK, TNC and other audio sources. Includes two 8-pin round radio cables. Dim: 6" w x 1.5" h x 5" d **\$109.99**



616 Speech Intelligibility Enhancer™ - Provides approximately 20dB audio frequency boost or cut to four overlapping octave ranges centered at 300, 600, 1200 & 2400 Hz. Improves ability to hear and understand SSB, FM, AM, CW & QSOs by adjusting response levels to match hearing response for best clarity, then equalizing perceived loudness to each ear. Built-in dual, 2.5W, audio amps; front panel jack; speaker on/off switch; 2 selectable transceiver inputs; bypass switch. Use with rig or PA. Dim: 10" w x 2.5" h x 6" d; requires 12 VDC **\$179.99**

281 Communications Speaker

Features a rugged 3 inch mylar cone speaker mounted in a baffle. Improves speech intelligibility in the 600-4000Hz range while reducing undesirable noise, static and hum. Mounting bracket. Dim: 3.75" h x 3" w x 2.25" d **\$12.99**



382 Deluxe Amplified Speaker

Excellent for QRP'ers, base station HTs or rigs requiring more volume. A quality 3 inch speaker does the job. All metal cabinet, rubber feet and vinyl clad cover. Uses 9 Volt battery or 110V AC with optional MFJ-1312D. Audio cable included. Dim: 3.5" h x 1.75" w x 4.5" d ... **\$39.99**



784B Tunable DSP Audio Filter - Improves reception by simultaneously eliminating heterodynes and reducing noise and interference in nearly any mode. Provides five tunable DSP filters, plus ten programmable filters. An Automatic Notch eliminates heterodynes and Adaptive Noise Reduction reduces fatigue. Highpass/lowpass and tunable bandpass filters combine to dig out weak and difficult signals. Uses 12 VDC or 110V with the MFJ-1312D. Dim: 9.5" w x 2.5" h x 6" d **\$249.99**

LARGE STOCKS - we are in a position to take care of your needs out of our Regular Inventory.

**WE WANT
TRADE-IN's!**

**Tell us what you
have to trade...**

CALL ANY LOCATION

Sorry, no Handhelds



MFJ CODE PRACTICE READERS KEYS

557 Code Oscillator with Key – Practice sending code anywhere. A Morse straight key on a non-skid heavy steel base. The oscillator has a built-in speaker, adjustable volume and tone. Uses 9V battery (not included) or 110VAC with MFJ-1312D (\$15.99). Dim: 8.5" d x 2.25" h x 3.75" w.... **\$39.99**

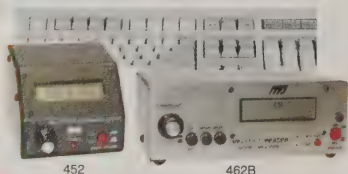


554 Code Practice Oscillator – Designed for classroom use with great sound that enhances learning of Morse code. Plenty of volume from a built-in 1W amp and 3 inch speaker. Volume control and adjustable tone control (400-1000 Hz). On/off switch, power LED, 1/4" key jack, 3.5mm external speaker and DC input jacks. Requires 12V DC. Metal enclosure. Dim: 4.25" x 1.5" h x 5" d.... **\$89.99**

550 Hand Key..... **\$14.99**



414 Professional Classroom Tutor – Features include LCD readout, printer port and audio tape recording output. Build and save 3 custom sets for extra practice. Or combine these to obtain 48 characters for using the KOCH method. Customize random words for practice. Use with 144/440 MHz FM HT or HF transceiver for on-air code practice. VECs can give up to 16 exams. Full-featured memory keyer (1000 character memory, semi/auto modes, iambic A/B, reverse paddle, change speed and tone on-the-fly). Practice sending into the 414 with iambic paddle or straight key. Use built-in or external speaker or headphones. Includes serial port and patch cable. Uses 12 VDC or 110 VAC with MFJ-1312D (\$15.99). Dim: 8.5" w x 2.25" h x 6" d..... **\$199.99**



452 Super CW Keyboard – A CW keyboard that includes a 2-line 16-character LCD display. Send effortless and accurate CW by just typing and watching the display, no computer required. Speed: 5-100WPM; Weight: 5-95%; Sidetone: 300-3000 Hz sidetone; Serial Numbers (0-9999); Buffer and memory full audible indicators. Keys solid-state and tube-type rigs. Requires 12VDC..... **\$139.99**

462B MultiReader™ – Feed in audio from a receiver or transceiver, tune in CW, RTTY, ASCII or AMTOR (FEC) signals and read the auto decoded text directly from the 2-line, LCD display. Copy most standard shifts and speeds in all modes. AutoTrak™ feature for high-speed CW. An 8K memory for storage and convenient printer port. Requires 12VDC. Dim: 6.25" w x 2.5" h x 6.25" d.... **\$189.99**

461 Pocket-Size Morse Code Reader™ – No cables to hook-up and no other equipment needed. Simply hold the unit near your receiver and it instantly displays CW text in English! Automatic speed tracking and instant 140-character replay on a 32-character LCD. If desired, a serial port lets you display CW text on a monitor using a computer and terminal program. Connect directly to a receiver with optional cable when it's too noisy or CW is unwanted. Uses 9V battery (not included). Dim: 2.25" h x 3.25" w x 1" d, 5.5 oz..... **\$89.99**

5162 Receiver Cable – Connects the 461 or the 462B to a radio's external 3.5mm jack..... **\$7.99**



464 CW Reader With Built-In Keyer – Plugs into a transceiver's speaker/phone jack and key jack. Add a single or iambic paddle or computer keyboard and it's ready for complete CW operation. Send and read at 5 to 99 WPM with automatic speed tracking. Menu operation; two-line LCD shows "send and receive" text; Front panel speed and volume controls; four message memories; 190 character type-ahead and read-again buffers; Adjustable weight (25% to 75%) and sidetone; Built-in speaker; Dim: 6.25" w x 2.5" h x 6.25" d..... **\$179.99**



407D Deluxe Electronic Keyer – Dot-dash memory, self completing dots and dashes and jam-proof spacing. Single, squeeze, or straight key functions. Front panel speed, weight, tone and volume, ON/OFF, and tune controls; Selectable auto or semi-automatic and A/B-type iambic keying Built-in speaker. Uses 9V battery. Dim: 7" w x 2" h x 6" d.... **\$69.99**

401D Econo Keyer – Similar to 407D except weight and tone controls are adjusted internally, no tune switch. Dim: 4" w x 1.75" h x 3.75" d.... **\$59.99**



434B Contest Voice Keyer™ – Call CQ, send your call and do contest exchanges in your own natural voice! Store in EEPROM, frequently used phrases like "CQ Contest this is K9KHW, "You're 59"..." "Grid is EN63" and more! Record and play back five messages (75 seconds total) and repeat continuously with a 3-500 seconds delay. You can record and play back off-the-air signals and there's a jack for remote or computer control. Internal jumpers match Kenwood, Icom, Yaesu, Alinco rigs, using your station or built-in microphone for recording. Built-in speaker and amplifier lets you monitor stored messages. Accepts 8-pin modular or round microphone plugs. The MFJ-73 Remote Control Head (\$34.99) allows out of the way operation. Use 9 Volt battery, 9-15 VDC or 110 VAC with MFJ-1312D, (\$15.99). Dim: 6.5" w x 2.5" h x 6.5" d..... **\$179.99**

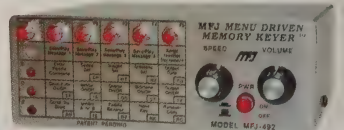


422D Keyer-Paddle Combo – Consists of a unique MFJ/Curtis keyer™ in a compact package installed on a Benchner iambic paddle. Adjustable weight and tone and has a front panel volume and speed controls (5-65 wpm). Built-in dot-dash memory, speaker, sidetone and semi-auto/tune modes. Key grid block, cathode or solid state. Uses 9 volt battery or 110 VAC with MFJ-1312D (\$15.99). Dim: 4" w x 2.25" h x 4.25" d..... **\$179.99**

422DX Keyer Only – Install on your Benchner or MFJ 564 iambic paddle..... **\$89.99**

490 Menu Driven Memory Keyer and Benchner Paddle Combination – A compact feature-rich keyer mounted on a Benchner iambic paddle. No complex sequences. Just press a button to select a menu (LED indicates active menu), then select a feature. Has 192 character (8K) memories divided into four soft sectors. Save messages. Select automatic semi-automatic or bug or handkey modes. Select iambic A/B, Morse trainer, contest serial numbering. Side tone with built-in speaker and volume control. Adjustable CW speed 5 to 100 wpm. Recognizes special MARS characters. Keys direct or grid-block keying transmitters, solid state or tube rigs. Uses 9-volt battery or 110 VAC with MFJ-1312D (\$15.99). Dim: 5" w x 3" h x 5.5" d..... **\$199.99**

490X Menu/Memory Keyer Only – Same as MFJ 490 but without Benchner paddle..... **\$109.99**



492 Menu Driven Memory Keyer – Same features and as the MFJ-490 but a stand alone unit without paddle. Uses 9-volt battery or 110 VAC with MFJ 1312D (\$15.99). Dim: 6.5" x 2.5" x 6.25" ... **\$109.99**



495 Millennium CW Keyer – A powerful keyer combining the latest microprocessor technology with non-volatile memory. Easy-to-use menus and LCD display. Send CW, load messages and set functions using a paddle, keyboard or serial port. Iambic mode works with direct or grid-block outputs. PTI output, built-in speaker, sidetone; Iambic keying with dot and dash memories; 32 message memories; Repeat message continuously; Insert timed pauses, auto-incrementing serial number, or embedded commands to change speed, weight, etc.; Message editing capability; Input queue to store multiple messages; Digital and analog linear speed control; Farnsworth method with speed from 10-99 WPM; Type-ahead keyboard buffer; Dual user/configuration mode. Uses 9-volt battery or 110 VAC with MFJ-1312D (\$15.99). Dim: 6.25" w x 2.5" h x 6.25" d..... **\$169.99**

KENT Keys

Produced by R.A. Kent Engineers for OUTBACK. Rugged, machined and polished solid brass components. Delicate, smooth feel and free movement with minimum friction and side play. Silver contacts with precise gap alignments are easily adjusted with knurled heads on fine pitched screws. Non-slip feet, and weighted for stability.



VK-1 The "Vail Lever Correspondent" Key A faithful reproduction, accurate to the type of hardware used during the mid-1800s, of the first full mechanism telegraph hand key made for Samuel F.B. Morse by Alfred Vail in 1844. Hand crafted and serialized - a collectable! **\$179.99**
SK-1 - Straight Morse Key..... **\$129.99**
SP-1 - Single Paddle Morse Key..... **\$139.99**
TP-1 - Dual Paddle Iambic Key..... **\$149.99**

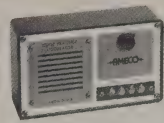


XT-4 CW Memory Keyer - Designed for QRP, field day, mobile or any portable operation. Great in the shack with smaller rigs. Speed range 8-45 WPM; (4) 100 character memories; positive keying output; 3.5mm input jack, RCA phono jack output; Paddle reverse for left or right-hand operation; Auto power save mode engages after 30 min. of inactivity. Uses 9V battery..... **\$69.99**
KC-4 - Cable set for XT-4..... **\$9.99**
VK-64 Combination CW/Voice Keyer - Store and play back CQs, contest info, etc. in both CW and Voice. The Voice has four memories (up to 15 seconds each). The CW keyer does 10-45 WPM with 4 programmable memories of 300 characters each. Configure for: Iambic A/B keying; Weight; Side tone; Paddle reverse. Tune function; Auto repeat and 1/2 to 12-second delay. Run stand alone or control with PC/laptop through a 25-pin printer port. Works with major contest logging programs. Uses a 12V wall power supply **\$229.99**
VKC-8 Shielded Audio Cable - A semi-kit wired and tested except for microphone and transmitter connectors (8-pin)..... **\$24.99**



I-MATE Accessory for ICOM PRO Series Provides external selection of pre-recorded voice and keyed messages for the 756PROII & III and keyed CW messages for the 746PRO. Eliminates shifting the display from operating mode to memory select mode to transmit pre-recorded messages. Four buttons transmit associated messages. Provides pulsed sine-wave oscillator for safe tuner and amplifier tuning. Alternate audio input for second microphone. Plugs into transceiver microphone jack and powers from the available voltage..... **\$74.99**

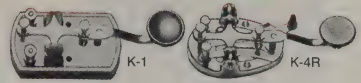
The
Better RF
Company



AMECO
Code practice oscillator
and Morse code monitor

Built-in speaker plus terminal connectors for headphones. Requires a 9V battery and code key.

OCM-2W Wired **\$29.99** • **OCM-2K** Kit **\$19.99**



Morse Code Keys

K-1 Low-cost General Purpose Key - Phenolic base, adjustable tension, contact spacing .. **\$10.95**
K-4R Deluxe High Quality Key - Polished brass base, shorting bar **\$17.95**

BENCHER, INC.

IAMBIC & SINGLE LEVER PADDLES
Great paddles that are responsive, light to the touch with definitive yet subtle tactile feedback, friction free return, and perfect closure on every dot and dash. Includes gold-plated solid silver contact points and heavy non-skid base.

IAMBIC
BY-1 - Black base/Chrome components **\$114.99**
BY-2 - Chrome base/components **\$139.99**
BY-4 - Black base/Gold components .. **\$179.99**
SINGLE LEVER
ST-1 - Black base/Chrome components **\$119.99**
ST-2 - Chrome base & components ... **\$144.99**

RJ SERIES KEYS
Oil-impregnated bronze bearing pivot points for friction-free pivoting and wobble free vertical tracking. Operating comfort with the black Navy knob with removable skirt and stainless steel locking screws that allow individual adjustment for arm height, tension and contact spacing. Heavy metal base with anti-skid rubber feet.
RJ-1 - Black base/Chrome components.. **\$110.99**
RJ-2 - Chrome Base & components .. **\$135.99**



IDIOM Press
LOGIKEY

K-5 Fully Iambic Keyer - An improvement on the world-famous LOGIKEY K-3. More user friendly and an unmatched feature list, with the best operator interface available. New features include greater protection against voltage spikes, lightning, etc. All stainless hardware, internal volume control, updated enclosure design. Three AAA cells run the K5 for months, or it also accepts 9 to 12V DC. Works perfectly with single-lever, non-iambic paddles. Dim: 4.25" w x 2.25" h x 4.75" d. The K5 otherwise has too many features to list, but you'll find full details at <http://www.idiompress.com/K5.html>.... **\$149.99**
HK-3 Hook-up kit for the K3 - Includes Paddle-to-Keyer cordset; RCA-to-RCA keyer output cable and 2.5 mm DC power plug cordset for 12V **\$10.99**



We accept I.M.P.A.C.® Government Credit Cards

VIBROPLEX®



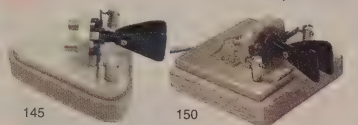
The Original Bug from 1904, is still made using tools similar to those used by inventor Horace Martin. Designed for 20-50+ WPM.

110 Standard - Painted base/chrome top **\$179.99**
105 Deluxe - Polished chrome base and top parts with fine jewel movements..... **\$209.99**
100 Presentation - Polished chrome base and 24K gold-plated base plate and chrome top parts, fine jewel movements..... **\$269.99**
090 Gold - Plated base/chrome top.. **\$309.99**



Vibrokeys: Single lever paddle (left) initiates automatic dots and dashes of an electronic keyer. Iambic model (right) allows automatic dot/dash insertion.

VIBROKEYER
120 Standard - Blk base, chrome parts **\$159.99**
115 Deluxe - Chrome base and top parts with jeweled movements..... **\$199.99**
113 Gold - 24K gold-plated base and chrome top parts with jeweled movements.... **\$279.99**
IAMBIC
135 Standard **\$159.99**
130 Deluxe..... **\$199.99**
125 Presentation - 24K gold-plated top plate, chrome base with jeweled movements **\$269.99**
123 Gold **\$279.99**



145 Triangle Brass Racer Iambic - Solid brass paddle & polished hardwood base **\$149.99**
150 Square Brass Racer - Solid lacquered brass Iambic paddle mounted on a polished hardwood base. Magnetic action, no springs..... **\$149.99**



Straight Keys (left) - Unique mechanical action, unlike any straight key ever manufactured.

155 Standard **\$159.99**
160 Deluxe..... **\$199.99**
153 Gold **\$279.99**
Deluxe Double Keys (right) - Choice of iambic and straight or vibrokeyer and straight key. Double keys allow you to instantly switch from using an electronic keyer to the personal touch of a straight key.
165 DLX straight key/Iambic..... **\$349.99**
170 DLX straight key/Vibrokeyer.. **\$349.99**
CP3 Cord/plug for Iambic/Vibrokeyer.. **\$9.99**

CW Keys

63

Price Guide
Used / Demo
Ham Radios
Antennas
Accessories
Antenna
Accessories
Publications
Other
Radios
Weather
& GPS
Audio / Video
& Tools
AES
Information

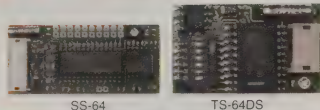
• 1-800-321-3594 OH • 1-800-327-1917 FL • 1-800-634-6227 NV

Email Your Questions to info@qesham.com



Price Guide
Used / Demo
Ham Radios
Accessories
Antenna
Publications
Other Radios
Weather & GPS
Audio / Video
Tools
AES
Information

COMMUNICATIONS SPECIALISTS, INC. TONE ENCODERS & DECODERS

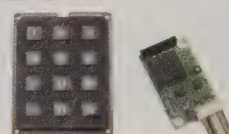


SS-64 Programmable CTCSS Encoder - Super small for easy installation in most handhelds. Standard with 64 EIA tones between 33 and 254.1 Hz. Individual tones dip-switch selectable. Dim: 0.66" x 1.08" x 0.21". 6-28 VDC..... **\$28.99**

TS-64DS Field programmable CTCSS Encoder /Decoder - DIP switches select 64 EIA tones 33 to 254.1 Hz. Dim: 1.25" x 2" x 0.3". 6-28 VDC.. **\$57.99**



TE-32 Multi-tone Encoder - Provides 32 tones via direct access from the dial rotary switch to all EIA CTCSS tones from 67 to 203.5 Hz, allowing access to multiple repeaters. Great for mobile or test bench. Dim: 5.25" x 3.3" x 1.7". 6-30 VDC... **\$49.99**



ID-8 Multi-Featured Automatic Morse ID'er Programmable via 12-button pad; Eight changeable messages (200 characters total); CW speed: 1-99 WPM; ID interval timing: 1-99 min.; ID hold-off timing: 0-99 seconds; CW tone: 100-3000 Hz; 6-20VDC. Dim: 1.85" x 1.12" x 0.35"..... **\$69.99**
Wiring diagrams and lists of Fax-on Demand documents can be obtained from www.com-spec.com.



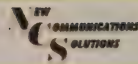
TONE SIGNALLING

NC-101 Encoder - Micro-miniature CTCSS encoder, field tunable to any CTCSS tone frequency between 67 Hz and 254 Hz. Uses 5 to 15VDC. Dim: 0.60" w x 0.80" l x 0.15" h..... **\$21.99**

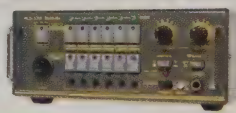
NC-104 Programmable Encoder - Sub-miniature field programmable CTCSS encoder unit for limited space. Provides standard 37 EIA CTCSS tones plus 69.37, 97.4 and 205.5 Hz. Uses 7 to 24VDC. Dim: 0.625" w x 0.80" l x 0.170" d... **\$26.99**

NC-106 Programmable CTCSS Encoder and Decoder - A sub-miniature crystal-controlled digital unit. Field programmable with dip switches providing any one of the CTCSS tones + 97.4 Hz. 6-24VDC. Dim: 0.85" w x 1.35" l x 0.28" h... **\$62.99**

NC-401 Touch-Tone® Decoder - A micro-mini unit combining 2 distinct multi-addressable decoders for control of remote or local applications. Decodes all 16 DTMF characters with an address length of 1-14 characters and features EPROM memory for storage of both primary and secondary codes, input/output functions, dead-beat disable and user outputs, plus default reset. Programs with a conventional DTMF encoder. Uses 6-24VDC. Dim: 0.80" x 1.37" x 0.23" ... **\$62.99**



Take Control of Your Audio! Instantly Switch Transmit and Receive Audio Among Multiple Radios

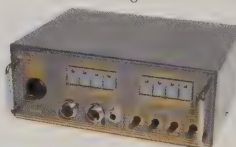


NCS-3230 Multi-RX Receive Console - The ultimate in Receive Audio control from up to 6 receivers! Connect radios, then choose which to monitor, where the audio will appear in the audio field (normal and spatial modes), and with an external recorder, record any or all audio utilizing manual or VOX activation. LEDs indicate which radio(s) are selected. Built-in stereo amplifier, front panel volume and balance controls, and "Mute All" button. Use headphones, speakers or both. 12 VDC. Dim: 8.5" w x 3.3" h x 6.6" d..... **\$349.99**

NCS-1514 Wall Power Supply - Designed for use with the 3230 above..... **\$24.99**

NCS-P2PH35-A Cable Kit - Six cables, 6 ft. long, for connecting radios to the 3230. RCA connector on one end and 3.5mm plug on the other **\$26.99**

NCS-MRX2MS-A Cable Kit - For interfacing the 3230 to the 3240. Feeds selected audio from the 3230 to speakers or headphones connected to the 3240, has selective muting feature..... **\$49.99**



NCS-3240 The Multi-Switcher - Convenient Switching of microphone, headset, CW keyer, foot-switch, etc. to any of four different radios using LED-lighted push buttons. Switch between headset, desk or hand microphone, TNC, phone patch, sound card, etc. Matches impedance, audio level and pin-out of nearly any microphone to any radio 12VDC. Dim: 8.5" w x 3.3" h x 6.2" d..... **\$299.99**

NCS-1512 Wall Power Supply
For the 3240, 12 VDC output @ 300mA... **\$12.99**

NCS-LOZNC Unterminated Cable
Requires mic connector. Other end is an 8-pin DIN male connector to interface with 3240..... **\$17.99**

See NCS in the Price Guide for Radio Cables for Icom, Kenwood & Yaesu radios

YAESU INTERNET LINKING KIT



HRI-100 Amateur Radio Internet Linking Kit Uses DTMF signalling to connect HTs or Mobile transceivers to the Internet. A repeater-based system, ideal for emergency communications, "sister-city" link-ups, or accessing repeaters world-wide. Includes CD, manual, power cable, RS-232C/DB-9 data cable, 8-pin mini-DIN plug data cable, 2 sound card cables and WIRES™ II user/server agreement..... **\$149.99**
WIRES™ II info at: www.vxstd.com/en/wiresinfo-en/

YAESU 50W 2M FM REPEATER



VXR-7000VA 50W 2M FM Desktop Repeater
A long list of built in features that set the standard for a mid-power continuous duty repeater application. Attractive housing and user-friendly control! In the most demanding environments, the VXR-7000VA will provide years of reliable service. 130-150 MHz; 16 channel synthesized; 10-50W output, adjustable (100% duty); 12.5/25 kHz bandwidth; Programmable 16 tones/codes; ANI/ENI I.D. display*; CW transmitter I.D.*; Time-out, hang and guard* timers; BCLO, BTLO; Selectable repeater or base transceiver mode; Selectable local or remote mode; 115/230 VAC, automatic DC supply back-up. Dim: 4.5" h x 12.8" w x 15.4" d; 22 lbs **\$1269.99**
* Dealer programmed feature

ICOM® D-STAR REPEATERS & CONTROLLER



D-STAR repeaters can be tied together to make up the repeater system you want using either Internet or microwave links.

The D-STAR voice and low-speed data signal offers a significant improvement in spectrum efficiency, requiring only a 6 kHz channel instead of the 20, 25, or even 30 kHz of analog wide-band FM. D-STAR repeaters can be interleaved between existing channels or multiple repeaters deployed in the spectrum of only one analog FM repeater.

Single Modules:

ID-RP2C - Repeater Controller (control up to 4 modules)..... **\$1459.99**

ID-RP2D - 1.2 GHz Data module; RX & TX 1240-1300 MHz; Output 9-12W (high)/0.5-1.2W (low); Communication speed: 128 kbps..... **\$1112.99**

ID-RP2V - 1.2 GHz Voice Module; RX & TX 1240-1300 MHz; Output 6-12W (high)/0.5-1.2W (low); Communication speed: 4.8 kbps... **\$1559.99**

ID-RP2000V - 2M Voice Module; RX & TX 144-148 MHz; Output 23-30W (high)/2-3W (low); TX speed: 4.8 kbps (voice 2400 bps, FEC 1200 bps, data 952 bps)..... **\$1399.99**

ID-RP4000V - 440 MHz Voice Module; 440-450 MHz; Output 23-30W (high)/2-3W (low); TX speed: 4.8 kbps (voice 2400 bps, FEC 1200 bps, data 952 bps)..... **\$1399.99**

ID-RP2L - 10 GHz Backbone Module; Microwave link repeater provides linking with another repeater site; RX & TX 10-10.175 GHz; Output 2W; TX speed: 10 Mbps..... **\$5209.99**

Packages:

ID-RP2C/2D - ID-RP2C & ID-RP2D **\$2297.99**

ID-RP2C/2V - ID-RP2C & ID-RP2V **\$2969.99**

ID-RP2D/V

ID-RP2C, ID-RP2D & ID-RP2V **\$4119.99**

ID-RP2D/V+LIN

ID-RP2C, ID-RP2D, ID-RP2V & ID-RP2L **\$9904.99**





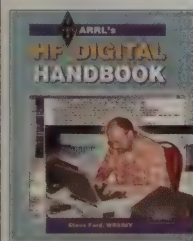
RIGblaster

The easiest way to connect a radio to a PC to operate old or new analog and digital modes. Over 100 ham radio programs transmit and receive over 20 different modes. Your radio, a RIGblaster, PC, and appropriate software take the place of old expensive adapters, TNC's, digital voice keyers, microphone equalizers, rig control interfaces, DSP receive filters, internet linking interfaces, automatic beacon clocks and more. Use the processing power built in to your PC instead of a old fashioned outboard box that only does a few things. All RIGblasters are fully ground isolated, comes with an up to date CD collection of ham radio operating software, all the cables and power supply you need to get on the air. Three models to choose from for your operating needs. Use with any USB or RS-232 computer and over 2000 different radios.

RB/PR/CUSB RIGblaster Pro USB - The only complete computer interface! Allows you to use all sound card software, computer control a radio, equalize and record a microphone, operate keyboard FSK, CW and more. Built in rig control interface for most radios. Single serial port rig control and sound card operation. Separate CW and FSK keying outputs. Transmit audio muting. Two mic. switchover. For the ham that wishes to do everything that can be done with computer and a radio. For 8-pin and RJ-45 radios as supplied.... **\$279.99**

RB/PL/CUSB RIGblaster PLUS USB - Run all sound card modes with fully automatic operation with your mic. No manual switching, no plugging or unplugging. Works with all transmit and receive sound card software. CW or FSK direct keying output. 8-pin and RJ-45 radios as supplied.... **\$149.99**

RB/NO/CUSB RIGblaster Nomic USB - Small and inexpensive. Perfect for portable or temporary setups. No power supply needed. Perfect for an Internet remote link. Unplug your microphone whenever you wish to use sound card software. For 8-pin and RJ-45 radios as supplied..... **\$89.99**



ARRL HF DIGITAL HANDBOOK 3rd EDITION

Discover the wonders of RTTY, PACTOR, PACTOR II, Clover, G-TOR, Hellschreiber, MFSK16 & PSK-31. All it takes is your computer, and SSB transceiver and an HF modem, multi-mode processor or PC soundcard. Learn how to assemble your own HF digital station, send/receive internet-mail via HF radio and more! **ARR 9159 \$19.95**

**Order Now Toll Free
from any AES Location**



We accept I.M.P.A.C.® Government Credit Cards

MFJ Computer SOUND CARD to RIG Interfaces

Connect the Sound Card in your Computer to your Rig and operate the Digital Modes: CW, RTTY, SSTV, PSK-31, packet, APRS, AMTOR, High Speed Meteor Scatter, others

1275/1275M Sound Card Interface - Connect between a transceiver and computer and operate PSK-31, packet, APRS, AMTOR, RTTY, SSTV, CW, HSCW, plus contest voice keying, contest memory keyer, etc. Internal jumpers set up for any radio. Includes AC power supply, all cables and a CD with a collection popular digital mode software. Use model **1275** for 8-pin round microphone plug or model **1275M** for 8-pin modular plug (RJ-45) each **\$109.99**



MFJ-1275

1279 Super Sound Card Interface - Has all of the features of the MFJ-1275 above, plus: an Auxiliary input jack to switch the sound card to some other device. No more plugging and unplugging. Direct CW/FSK keying jack, headphone jack (use stereo headphones), also turns off external speaker. Plug in a footswitch or other for PTT switch when not using VOX. Plug and play, includes CD with a selection of digital mode software, RS-232 and audio cables, and AC power supply. Use model **1279** for 8-pin round microphone plug or model **1279M** for 8-pin modular (RJ-45) microphone plug each **\$139.99**

1273B Sound Card Interface - A basic plug-and-play interface for the digital modes. Has jacks for sound card, radio, speaker and RS-232 (no mic jack or switch). Includes RS-232, audio and mic cables and software. No external power needed. Use model **1273B** for 8-pin round microphone plug, or model **1273BM** for 8-pin modular (RJ-45) microphone plug. ea. **\$59.99**

1272B TNC/Microphone Switch - Switch between your TNC and 8-pin microphone by pushing a button. For microphones with 8-pin modular (RJ-45) plug, use model **1272M** each **\$49.99**



MFJ 16-Element Wi-Fi Yagi



of interfering signals. Works with any 802.11b/g or 2.4 GHz device. Unique mount has a built-in standard N-type female connector and screw mount for standard tripod. There are rear holes for wall mounting and bottom holes for desk or shelf mounting. Orientates for either horizontal or vertical polarization. Precision punched aluminum construction. Boom length: 18 inches, Weight: only 2.9 oz. **\$29.99**

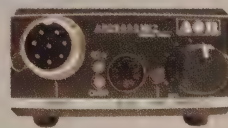
5606SR - 6 ft. cable with N type male connector on one end and reverse SMA connector on the other. Connect your MFJ-1800 to any 802.11b/g device with a reverse SMA connector. **\$24.99**

1800 - Covers 2.4 GHz with 15dBi gain to greatly extend the range of 802.11b/g Wi-Fi signals up to 32 times over an isotropic radiator. Turns an unusable or slow Wi-Fi signal into a solid, fast connection. The highly directional pattern minimizes the possibility

AOR® Digital Voice Interfaces



ARD-9800 Digital Voice and Image Interface - Use your conventional SSB transceiver for Digital Voice, Data (3600 bps) and Images while maintaining analog capabilities. No modifications, simply plug it in to the microphone jack, operates with transceiver in SSB mode. An automatic voice signal detector recognizes received signal as analog or digital, automatically switching to the appropriate mode. Uses Open Digital Protocol which is permitted on US Ham bands. Built-in speaker and video output connector which allows external TV monitor viewing. Includes PTT hand microphone, cables and manual. Requires 10-16VDC. Dim: 3.94" w x 1.26" h x 6.14" d **\$549.99**



ARD-9000 MK 2 Digital SSB Interface - Like the ARD-9800 it works with any existing SSB transceiver without modifications to operate digitally where background noise and static are virtually non-existent and SSB audio is near FM quality. It's Digital Voice only and does not include Data and Images like the ARD-9800; it's also less expensive. However, the ARD-9000 MK 2 and ARD-9800 are compatible with each other and both automatically detect digital signals and decode them while allowing analog signals to pass through. Easily shifts between digital and analog operation. Comes with a speaker-microphone, DC power cable, magnetic mount base and 8-pin microphone plug. It's ready to make the simple connection to your transceiver's microphone input and speaker output. Dim: 2.8" w x 1.3" h x 3.9" d. **\$359.99**

Price Guide
Used / Demo
Ham Radios
Accessories
Antennas
Publications
Other Radios
Weather & GPS
Audio / Video
Tools
AES
Information



MFJ VHF DATA RADIOS

Don't tie up your expensive rig on a single packet channel, check out these low-cost MFJ Data Radios.

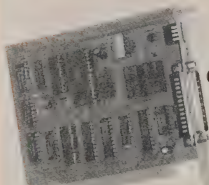
8621 PacketOnly™ 2M Transceiver – Compatible with all TNCs with hardware DCDs and most TNCs with software DCDs. Features: 1200/9600 baud; 5W output; Low current drain only 15mA on receive and less than 1 amp on transmit. Dim: 5" w x 5" d x 1.5" h; Crystals installed for 145.01 MHz. **\$159.99**

8621X2 PacketOnly™ 2M Transceiver – Ready for APRS use. Crystallized and aligned for 144.390 MHz; 5W output **\$169.99**

Available Accessories:

4110 Portable AC power supply, \$100 Data radio cable (MFJ/TAPR), \$100VY Data radio cable (KAM/KPC3), \$106 Open end (6-pin mini) (Kenwood/Yaesu)

UM Unified Microsystems



W9XT Contest Card for IBM® & PC Compatible

A non-volatile 5 x 4.5 in. card that plugs into a single 8-bit ISA PC slot and provides Voice Recording, Playback and CW keying from your computer. Stores a total 60 seconds of voice audio divided into four 15 second messages. Samples at 8 kHz for high quality and natural sound. Does not use any disk space. For CW, the card frees up the PC port, and a relay allows operation with positive or negative keying. Works with all rigs and is compatible with most popular logging programs..... **\$139.99**

CCC-8 Contest Card Cable Semi-kit – Wired and tested except for connectors to mic and transmitter. Includes 6 ft. shielded cable, CW keying line and record switch (8-pin) .. **\$44.99**

Kantronics



MULTI-MODE DATA CONTROLLERS

KPC-3 Plus/128 – 1200 bps port; Packet, GPS/APRS, Host, KISS and WEFAX modes, use with EMDWIN; Personal Mailbox (PBS) now supports multiple calls; Remote access, sensing and control with two A/D and two control lines; PBS 100k, expandable with optional 512k RAM..... **\$218.99**

9612 Plus/128 – 1200 bps port and second port of 4800 – 38400 bps; Most modes/capabilities of the KPC-3 Plus and POCSAG (paging); Unique design allows the addition of another port, high or low speed; Remote access, sensing and control capability; Telemetry transmission capability **\$410.99**



KAM XL Multi-Mode DSP Controller Kantronics third generation multimode TNC, a state-of-the-art design giving operations on HF, VHF, and UHF, while supporting DSP modems and popular new modes of operation; Packet 300/1200 bps; G-TOR; PACTOR I; AMTOR ARQ (FEC, SELFE, CCIR 476 and 625); PSK31; RTTY; NAVTEX/AMTEX; ASCII; WEFAX; CW; Dual-port mailbox; Remote SYSOP access; GPS NMEA-0183 compatible; Kantronics Host Mode and KISS..... **\$425.99**



MT-1200 Mobile Tracker – A simple and affordable wireless modem able to communicate in a variety of formats including TCP/IP, LSUB, TUPs, AX.25, KISS, XKISS, POLL, LSUB, TUP and PING operating modes. Seamless and transparent radio link substitute. May be used with an external NMEA GPS receiver. 512K memory standard. Dim: 0.95" h x 4.9" w x 3.0" d; 4.8 oz..... **\$239.99**

MT-1200G Mobile Tracker – Includes an embedded GPS with active magnetic mount antenna for GPS position transmitting and tracking... **\$299.99**

TIMEWAVE TECHNOLOGY INC.



PK-232/PSK Multimode Data Controller – The most popular data controller ever built, now with a sound card interface. Offering a new level of performance with accurate DSP filters for internal data modes and dual transformer isolation for sound card modes. 18 DSP filters, twin peak RTTY filter, 100 Hz CW filter and adaptive PACTOR filters. Weak signals pop through noise and interference bounce off the filters for cleaner copy than old analog filters. Supports new sound card modes in addition to existing PK-232 modes. Comes with a complete cable and connector set, in addition to Timewave's on-line and telephone support. Requires 11-16V DC @ 800 ma. Dim: 8.25" d x 2.5" h; 3 lbs..... **\$531.99**

PK-232/USB – Same as above except the RS-232 port is replaced by a USB port **\$549.99**



PK-96/100K 9600/1200 packet TNC – 9600 and 1200 bps packet-ready; GPS firmware standard; Remotely program; GPS commands; Stand-alone tracking hardware HDLC for accuracy; True DCD hears weak signals; Gateway as a Node; Full MailDrop; AEA host mode; Advanced command set; Identify TCP/IP, TheNet and NetRom; Separate external TX for 9600/1200 bps adjustments; External reset; PC PackRatt Lite™ terminal control and APRS™ software included; WIN and MAC programs available; Requires 12V DC. 128K RAM. Dim: 6.25" w x 7.5" d x 1.375" h; 1.25 lbs. **\$219.99**

AC-1 120VAC Adapter – Supplies 12VDC @ 600 mA for PK-232PSK/USB data controllers... **\$15.99**

AC-5 120V Desktop Power Supply – Supplies 13.8VDC @ 1.7A for the DSP-599zx, PK-232/DSP, DSP-2232, DSP-1232, DSP-232, PK-900, PK-232 PSK/USB, PK-96/100K..... **\$22.99**

HAL COMMUNICATIONS CORP.



DXP-38

External DSP HF Radio Modem

Operates:

**PACTOR / RTTY / ASCII
AMTOR / CLOVER II**
Terminal Software Included

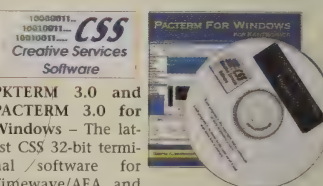
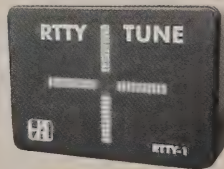
\$395.99

More info on DXP-38 at: www.halcomm.com

RTTY-1

Tuning Indicator

Easy to use, very accurate. Works with any FSK radio modem. Crossed LED bars show correct tuning for FSK modes including Baudot Teletype (RTTY), ASCII Teletype, AMTOR, SITOR, P-Mode, HF Packet. Filters: 2125 Hz (Mark), 2295 Hz (Space); Requires +9V-18V DC @ 160 ma. Dim: 5.5" w x 3.75" h x 1.25" d; 0.5 lb..... **\$99.99**



PKTERM 3.0 and PACTERM 3.0 for Windows – The latest CSS 32-bit terminal / software for Timewave/AEA and Kantronics TNCs and computer soundcard interfaces. True multi-tasking in Windows using the standard Windows interface for ease of use. Operates the digital modes (PSK-3, MFSK, MT63, SSTV, CW, RTTY, Amtor, Pactor, VHF/HF Packet) and works with single or dual port TNCs or with computer's soundcard and interface. Requires Timewave/AEA host mode or Kantronics TNC host mode for TNC interface. For soundcard-only mode use any of the popular soundcard interfaces like HamHub, RIGblaster or MEJ 1275/79. Easy logging with built-in logbook feature. On CD ROM.

PACTERM FOR WIN – Kantronics TNCs **\$99.99**

PKTERM for Windows – Works with the Timewave/AEA PK-12, 96 and 232 TNCs.. **\$99.99**



INTERCONNECTS

Fully automatic interface between an FM base radio and phone line to initiate and receive phone calls on a mobile or HT. Each contains powerful, microprocessor-controlled features such as 90 memory speed dialer, redial, built-in programming keyboard and digital readout, remote base mode, regenerated tone or pulse dialout, CW ID and toll restrict.



CS-800 Full Duplex Interconnect – Operates full semi-duplex and also has a built-in repeater controller. Simply connects to transceiver mic and speaker jacks. FCC and DOC approved. 12-15 VDC. Dim: 7.875" w x 7.5" d x 2" h; 2.5 lbs **\$369.99**

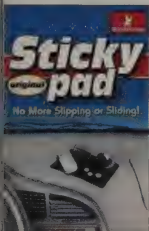


CS-900 Control Station Simplex Interconnect For use with any simplex transceiver. Also use thru remotely located repeaters (from base) for added range. Digital voice delay standard. Connects to mic and speaker jacks of simplex transceiver. FCC and DOC approved. (Transceiver switching speed does not affect performance) 12-15VDC. Dim: 7.9" w x 7.5" d x 2" h; 2.5 lbs **\$369.99**

ICC NITELOGGER II Automatic Tape Recorder Activator



Accepts audio output from a radio or scanner and provides voice activated relay operation for a tape recorder. When audio is present, an adjustable relay circuit automatically activates the recorder for the duration of the signal, then releases. Simple connection with supplied cables to radio's external speaker jack, tape recorder remote and microphone inputs. AC adapter included. Dim: 4.37" w x 3.25" h x 2" d. **\$69.99**



The Sticky Pad holds objects in place on your vehicle dash. No adhesives or magnets. The back of the pad allows it to stay anywhere you place it while also being movable. Durable, reusable.

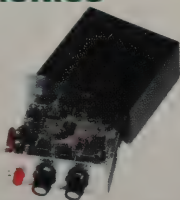
STI 13810 – Dim: 7.25 in. x 4.13 in **\$5.99**
STI 13820 – Dim: 8.75 in. x 6.875 in **\$9.99**

VECTRONICS

Electronic Kits

Each features a quality epoxy glass PC board with solder mask and screen-printed component key, manual and components.

See VECTRONICS in the Price Guide



Q-VIEW QSL Card Holders



Proudly display and protect your favorite QSL cards in these 12" x 40" clear plastic hanging holders. Each holds (20) 3.5" x 5.5" cards. Opens at center to receive cards easily. The pack of three will display 60 cards **ART QSLCARDHOLDE (3 pack) \$18.99**

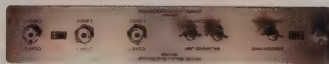
890 DX Beacon

Monitor – Checks worldwide band conditions in just three minutes. It's a stand alone timing device using a microprocessor and built-in WWVB atomic clock to keep track of the worldwide DX beacon activation sequence. LED indicators positioned across a world map show which of the 18 world beacons is active at any given time. Storing the beacon frequencies in your transceiver memory allows quick band switching as one listens for beacon transmissions. When a beacon is heard on any of the frequencies, that band is open to the location indicated by the corresponding LED. No transceiver connection required. Uses 12VDC or 110VAC with the optional MFJ-1312D. Dim: 6.75" w x 5.25" h x 3" d ... **\$109.99**



ATV Transmitter

8708 Micro ATV Transmitter – Transmits clear Amateur Television audio and video signal on 433.97 MHz (cable channel 58, 59 or 60). Plug in an antenna and a video source (video camera, camcorder or VCR). With a TV set or down-converter you'll have a complete low power ATV station. Puts out a 50 to 100mW signal with a range of up to 1.8 miles with a 3-element beam. Use a UHF amplifier you can enjoy ATV communications over an extended range with other ATV hams. Uses a 9V battery **\$159.99**



4602 Antenna Feedthrough Panel – Simply place in window sill (up to 48 in. wide) and close the window down on it. You can feed three coax-fed antennas, balanced line, random wire and a ground into the shack without drilling through walls. Made of 3/4 inch pressure-treated wood sandwiched between two stainless steel plates. Has three Teflon® SO-239 coax feedthru connectors, three ceramic balanced line/random wire feedthru insulators and ground connection. Dim: 48" w x 3.5" h x 0.75" d **\$59.99**



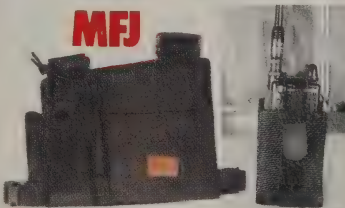
RT3-4653 Locking GearKeeper™ Two-Way Radio Tether for Handheld – Prevents loss or damage from the device being dropped. Easy connect and disconnect. Has a retractable 32 in. tether with 24-ounce return force. Full 360° rotating belt clip **\$26.99**

RT2-4012 Mic Keeper™ – Tired of fumbling with your microphone? Why not grab it, use it, let it go? The retractable 20 in. tether with 12-ounce return force and snap clip, attaches to D-ring or belt loop. The ultimate way to keep track of your microphone **\$19.99**

Communications Outfitters

EXP-1 Expedition Pack – Designed for the Yaesu FT-817. Allows backpack style or table top operation with complete access to all controls, front and rear. A zippered pouch on both sides

securely holds most any antenna in the collapsed position for travel. Radio compartment is divided so the top section will hold the FT-817, and the lower compartment can be used for an amplifier, tuner, accessories, or another radio. Made of high quality, durable nylon with plastic panels for rigidity and water-resistant for added rig protection. Dim: 12" w x 4" h x 15" d. **\$99.99**



18 HamGear™ Tactical Chest Harness (left) Perfect for rugged use, emergency radio operators and on-the-go hams! Use it for portable hamfest use, DXpeditions, field day, biking, hiking, etc. Made of durable heavy duty twill burlap, this interwoven fabric is water resistant and will cushion blows and scrapes. Adjustable shoulder straps. Harness is firmly held in place by stretchable inter-woven elastic belt with snap hook and adjustable sliders supported by nylon straps. An additional 5 x 7 in. cargo pocket holds another radio, accessories, maps, etc. **\$29.99**

15 HamGear™ Belt Radio Holder (right) A durable twill burlap pocket with elastic cord and velcro closure that easily stretches over any HT. Your belt slides easily through the attached 2 x 3 inch loop **\$14.99**

**MINI COOPER SHOWN WITH
CP-5M UNIVERSAL NP
MOUNT AND COAX CABLE
COMBINATION.
NO HOLES TO DRILL!**

MODEL ANT CONN / COAX CONN
CP-5M SO-239 / PL-259
CP-5NMO NMO / PL-259
CP-5 3/8-24 3/8-24 / PL-259

Heavy-duty adjustable lip mount bracket with 16" 6" deluxe cable assy includes 18" mini RG-188A/U type coax for weather seal entry.

Max antenna 70"
Attaches to trunk side/
van door/SUV door/
truck doors etc..



Life is a JOURNEY

Enjoy the ride!

COMET BNC-24 DUAL-BAND 2M/70CM HT ANTENNA RX range: 100-1200MHz
• Gain: 2.15/3.5dBi • Length: 17" • Conn: BNC Super flexible featherweight whip

COMET SMA-24 DUAL-BAND 2M/70CM HT ANTENNA RX range: 100-1200MHz
• Gain: 2.15/3.5dBi • Length: 17" • Conn: SMA Super flexible featherweight whip

COMET SMA-503 DUAL-BAND 2M/70CM HT ANTENNA RX range: 100-1200MHz
• Length: 8.75" • Conn: SMA

Maldol MH-209 (BNC Conn) MH-209SMA (SMA Conn) 2M/70CM DUAL-BAND HT ANTENNAS
3" length, soft rubber cover. Good performance in a small package!

COMET NEW! CSB750A DUAL-BAND 2M/440MHz W/FOLD-OVER

Gain & Wave: 146MHz 3.6dBi 1/2 wave, 446MHz 6.1dBi 5/8 wave x 2 • VSWR: 1.5:1 or less • Length: 42" • Conn: PL-259 • Max Pwr: 150W

COMET NEW! CSB770A DUAL-BAND 2M/440MHz W/FOLD-OVER

Gain & Wave: 146MHz 4.4dBi 5/8 wave center load, 446MHz 6.9dBi 5/8 wave x 2 center load • VSWR: 1.5:1 or less • Length: 51" • Conn: PL-259 • Max Pwr: 150W

COMET NEW! CSB790A DUAL-BAND 2M/440MHz W/FOLD-OVER

Gain & Wave: 146MHz 5.1dBi 7/8 wave center load, 446MHz 7.7dBi 5/8 wave x 3 center load • VSWR: 1.5:1 or less • Length: 62" • Conn: PL-259 • Max Pwr: 150W

Maldol AX-50 DUAL-BAND 2M/440MHz

Gain & Wave: 2M 1/4 wave • 70cm 5.0dBi 9/8 wave • Length: 21" • Conn: PL-259 • Max Power: 60W

Maldol AX-75 DUAL-BAND 2M/440MHz W/FOLD-OVER

Gain & Wave: 2M 1/2 wave center load 3.2dBi • 70cm 5/8 wave x 2 5.7dBi • Length: 30" • Conn: PL-259 • Max Power: 60W

Maldol AX-95 DUAL-BAND 2M/440MHz W/FOLD-OVER

Gain & Wave: 2M 1/2 wave center load 3.3dBi • 70cm 5/8 wave x 2 5.8dBi • Length: 38" • Conn: PL-259 • Max Power: 60W

COMET B-10 / B-10NMO DUAL-BAND 2M/440MHz

Gain & Wave: 146MHz 0dBi 1/4 wave • 446MHz 2.15dBi 1/2 wave • Length: 12" • Conn: B-10 PL-259, B-10NMO - NMO style • Max Pwr: 50W

COMET SBB-2 / SBB-2NMO DUAL-BAND 2M/440MHz

Gain & Wave: 146MHz 2.15dBi 1/4 wave • 446MHz 3.8dBi 5/8 wave center load • VSWR: 1.5:1 or less • Length: 18" • Conn: SBB-2 PL-259, SBB-2NMO NMO style • Max Pwr: 60W

Maldol EX-107RB / EX-107BNMO DUAL-BAND 2M/440MHz

Gain & Wave: 146MHz 2.6dBi 1/2 wave • 446MHz 4.9dBi 5/8 wave x 2 • VSWR: 1.5:1 or less • Length: 29" • Conn: EX-107RB PL-259, EX-107BNMO NMO style • Max Pwr: 100W

COMET SBB-5 / SBB-5NMO DUAL-BAND 2M/440MHz W/FOLD-OVER

Gain and wave: 146MHz 3dBi 1/2 wave • 446MHz 5.5dBi 5/8 wave x 2 • Length: 39" • Conn: SBB-5 PL-259, SBB-5NMO - NMO style • Max Pwr: 120W

COMET SBB-7 / SBB-7NMO DUAL-BAND 2M/440MHz W/FOLD-OVER

Gain & Wave: 146MHz 4.5dBi 6/8 wave • 446MHz 7.2dBi 5/8 wave x 3 • Length: 58" • Conn: SBB-7 PL-259, SBB-7NMO - NMO style • Max Pwr: 70W

COMET
and **Maldol Mobile**

For a complete catalog, call or visit your local dealer.

Or contact NCG Company, 1275 N. Grove Street, Anaheim, CA 92806

714-630-4541 • 800-962-2611 • FAX 714-630-7024 • www.natcommgroup.com

Life is a JOURNEY. Enjoy the ride!

Maldol MH-511 TRI-BAND 6M/2M/70CM HT ANTENNA • Length: 4" • Conn: Male SMA

Maldol MH-510 TRI-BAND 6M/2M/70CM HT ANTENNA • Gain: 0/0/3.2dBi • Length: 20.75" • Conn: Male SMA

COMET HT-224 TRI-BAND 2M/220/70CM HT ANTENNA • Gain: 1.3/1.4/1.8dBi • Length: 11.5" • Conn: Male SMA

Maldol MH-610 TRI-BAND 2M/220/70CM HT ANTENNA • Gain: 0/1.8/3.2dBi • Length: 14" • Conn: Male SMA

**MINI COOPER SHOWN WITH CP-5M
UNIVERSAL LIP MOUNT AND COAX
CABLE COMBINATION.
NO HOLES TO DRILL!**

MODEL	ANT CONN / COAX CONN
CP-5M	SO-239 / PL-259
CP-5NMO	NMO / PL-259
CP-5 3/8-24	3/8-24 / PL-259

Heavy-duty adjustable lip mount bracket with 16" 6" deluxe cable assy includes 18" mini RG-188A/U type coax for weather seal entry.

Max antenna 70"
Attaches to trunk side/
van door/SUV door/
truck doors etc..



UHV-6 in fold-over position.
Fold-over hinge included for easy entry to garage, parking structure, drive-thru etc... SB-15 / UHV-4 / UHV-6 / HMC-6S fold-over hinge has a threaded collar to lock the hinge vertically in place. It can't fold-over by itself at highway speed!

Maldol HMC-6S *40/20/15/10/6/2/440MHZ MOBILE ANTENNA WITH FOLD-OVER • Gain & Wave: HF 1/4 wave • 2M 2.15dBi 1/2 wave • 70cm 5.3dBi 5/8 wave x 2 • VSWR: HF-6M 1.6:1 or less 2M/70cm 1.5:1 or less • Length: 66" • Max Power: HF 120W SSB 6/270cm 150W FM HMC-7C optional 40M coil

COMET SBB-224 / SBB-224NMO TRI-BAND 2M/220/440MHZ WITH FOLD-OVER • Gain & Wave: 146MHz 2.15dBi 1/4 wave • 220MHz 3.5dBi 5/8 wave • 446MHz 6dBi 5/8 wave x 2 • Length: 36" • Conn: PL-259 or NMO style • Max Pwr: 100W

Maldol EX-510B / EX-510BNMO TRI-BAND 6M/2M/440MHZ WITH FOLD-OVER • Gain & Wave: 52MHz 1/4 wave • 146MHz 2.15dBi 1/2 wave • 446MHz 5.5dBi 5/8 wave x 2 VSWR: Length: 37" • Conn: PL-259 or NMO style • Max Power: 50W FM

COMET SB-15 TRI-BAND 6M/2M/440MHZ WITH FOLD-OVER • Gain & Wave: 52MHz 0dBi 1/4 wave • 146MHz 4.5 dBi 6/8 wave • 446MHz 7.2dBi 5/8 wave x 3 • Length: 58" • Conn: PL-259 • Max Pwr: 120W

COMET UHV-4 QUAD-BAND 10M/6M/2M/440MHZ WITH FOLD-OVER • Gain & Wave: 10M & 6M 1/4 wave • 2M 2.15dBi 1/2 wave • 70cm 5.5dBi 5/8 wave x 2 • Length: 55" • Max Power: 10M 120W SSB 6M/2M/70cm 100W FM • Conn: PL-259 • 10M and 6M bands have individual tuning stubs

COMET UHV-6 HF/6M/2M/440MHZ MOBILE ANTENNA *80/720/1740/15/10/6/2M/70cm Mobile antenna with fold-over hinge • Gain & Wave: 2M 2.15dBi 1/2 wave • 70cm 5.5dBi 5/8 wave x 2 • VSWR: HF 1.6:1 or less 6M/70cm 1.5:1 or less • Length: 44" (min), 76" (max) • Max Pwr: HF 120W SSB, 6M 200W SSB/100W FM, 2M/70cm 100W FM • **L-14 optional 20M coil • L-18 optional 17M coil • L-3.5 optional 80/75M coil • Features: • 6M/2M/70cm operation is constant. You CHOOSE the HF coils you want to add, up to four stock or optional. One vertical, the rest horizontal. • Easily mounts to standard trunk/door mount in minutes • Economical • Fold-over hinge built in • Select the duplexer or triplexer for your specific radio(s). CF-706A, CF-530, CFX-514N.

For a complete catalog, call or visit your local dealer.

Or contact NCG Company, 1275 N. Grove Street, Anaheim, CA 92806

714-630-4541 • 800-962-2611 • FAX 714-630-7024 • www.natcommgroup.com

COMET
and **Maldol Mobile**

CP SERIES

UNIVERSAL LIP MOUNTS

Four adjustment planes, four large set screws hold them securely in place on virtually any lip 1/4" thick or less. Use on trunk lids, van doors, truck doors, hoods etc.

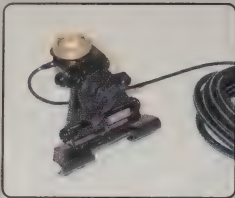
Deluxe low loss cable assembly included for easy entry thru the weather seal without causing water leaks, wind noise and/or coax cable damage.

Max antenna size: 70"/16 oz

Max Power: HF 130W

VHF 75W

UHF 45W



COMET

CP-5NMO

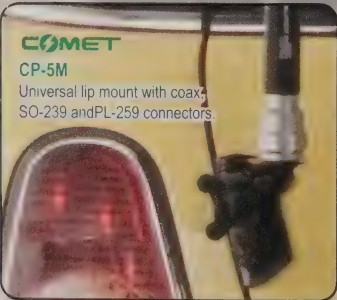
Universal lip mount with coax, NMO and PL-259 connectors.



COMET

CP-5 3/8-24

Universal lip mount with coax, 3/8 x 24 threaded socket and PL-259 connectors.



COMET

CP-5M

Universal lip mount with coax, SO-239 and PL-259 connectors.

Life is a JOURNEY. Enjoy the ride!

Combine the coax style and length you need with a bracket from below.

(assemblies also available with N-connectors)



COMET

3D5M / 3D4M

Standard low loss cable assy.
Gold plated SO-239 / PL-259 connectors.
3D5M length 16" 6"
3D4M length 13"



COMET

CK-3M5 / CK-3M

Deluxe low loss cable assy.
Includes 18" of mini RG-188A/U type coax for easy entry from a lip mount without causing water leaks, wind noise or coax damage.
CK-3M5 length: 16" 6"
CK-3M length: 9" 9"

Choose the bracket that best fits your antenna and vehicle. All have multiple adjustments and fit virtually any lip 1/4" thick or less. Soft rubber protects vehicle finish.



COMET

RS-730

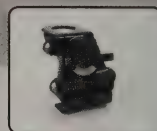
Heavy-duty, 4 adjustment planes, up to 70" antenna.



COMET

RS-720 / RS-720NMO

Med-duty, 3 adj planes, 60" ant.
RS-720: Accepts SO-239 conn
RS-720NMO: Accepts NMO conn



COMET

RS-520

Light-duty, 3 adjustment planes, up to 45" antenna.



Maldol

PRM-T

Heavy-duty, 3 adjustment planes, up to 80" antenna.



Maldol

MK-30H

12VDC motorized mount. Mounts to vertical or horizontal door lip. Up to 70"/19 oz. antenna.



Maldol

EM-B80

Light-duty, 2 adjustment planes, up to 40" antenna.



COMET

GRB-5M

Trunk lip mount, low-profile, black anodized stainless steel. Offset washers provide up to 17 deg. vertical adjustment of antenna. 16" 9" of deluxe cable included, 18" of mini RG-188A/U style coax for easy entry thru the weatherseal. Gold-plated SO-239/PL-259 connectors.

The rear doors on newer trucks are the perfect place to mount antennas • No holes to drill • Above roof line • Easy access • When mounting to a van, SUV, truck, etc., use the CP-5M or build your own system with components shown above. There are several mount sizes, coax diameters and coax lengths from which to choose.



COMET

and Maldol Mobile

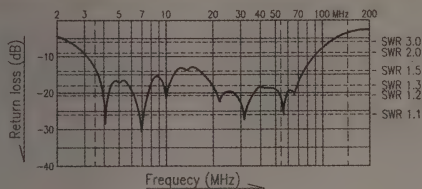
For a complete catalog, call or visit your local dealer.

Or contact NCG Company, 1275 N. Grove Street, Anaheim, CA 92806

714-630-4541 • 800-962-2611 • FAX 714-630-7024 • www.natcommgroup.com

Life is a JOURNEY. Enjoy the ride!

COMET
and **Maldol**
Base Antennas



CHA-250B VSWR graph

"One person can effortlessly raise the antenna at night when no one can spot it, and take it down before daybreak. This antenna is also a great choice for portable operations, such as quick and easy mini-DXpedition to a campground or a nice tropical island! In short, the Comet CHA-250B is simple to assemble, painless to elevate and is easy on the eyes, while at the same time getting you on 6 meters thru 80 meters without the requirement of an antenna tuner and ground radials. You'll even be able to work some DX while you're at it!" — Dan Dankert N6PEQ

- COMET NEW CHA-250B BROADBAND HF/6M GROUND-PLANE ANTENNA**
A newly designed broadband vertical with NO GROUND RADIALS. EXTREMELY easy to assemble, requires no tuning or adjustments and VSWRs under 1.5:1 from 3.5-57MHz! • TX: 3.5MHz – 57MHz • RX: 2.0 – 90MHz • VSWR is 1.5:1 or less, continuous • Max Power: 250W SSB/125W FM • Impedance: 50 Ohm • Length: 23' 5" • Weight: 7 lbs. • Conn: SO-239 • Mast Req'd: 1" – 2" dia. • Max wind speed: 67MPH
- COMET GP-15 TRI-BAND 52/146/446MHZ BASE REPEATER ANTENNA** Gain & Wave: 52MHz 3.0dBi 5/8 wave • 146MHz 6.2dBi 5/8 wave x 2 • 446MHz 8.6dBi 5/8 wave x 4 • Max Pwr: 150W • Length: 7'11" • Weight: 3lbs. • Conn: Gold-plated SO-239 • 2MHz band-width after tuning (6M) • Construction: Single-piece fiberglass
- COMET CX-333 TRI-BAND 146/220/446MHZ BASE REPEATER ANTENNA** Gain & Wave: 146MHz 6.5dBi 5/8 wave x 2 • 220MHz 7.8dBi 5/8 wave x 3 • 446MHz 9.0dBi 5/8 wave x 5 • Max Pwr: 120W • Length: 10'2" • Weight: 3lbs. • Conn: Gold-plated SO-239 • Construction: Fiberglass, 2 Sections
- COMET GP-3 DUAL-BAND 146/446MHZ BASE REPEATER ANTENNA** Gain & Wave: 146MHz 4.5dBi 6/8 wave • 446MHz 7.2dBi 5/8 wave x 3 • Max Pwr: 200W • Length: 5'11" • Weight: 2lbs. 9ozs. • Conn: Gold-plated SO-239 • Construction: Single-piece fiberglass
- COMET GP-6 DUAL-BAND 146/446MHZ BASE REPEATER ANTENNA** Gain & Wave: 146MHz 6.5dBi 5/8 wave x 2 • 446MHz 9.0dBi 5/8 wave x 5 • Max Pwr: 200W • Length: 10'2" • Weight: 3lbs. 8ozs. • Conn: Gold-plated SO-239 • Construction: Fiberglass, 2 Sections
- Maldol HVU-8 ULTRA-COMPACT 8 BAND HF/VHF/UHF VERTICAL ANTENNA**
80/40/20/15/10/6/2M/70cm Only 1/2 the traditional size and weight of vertical HF antennas, and it includes 2M/70cm! Unique radial system rotates for balcony installations, the radials can all be rotated to one side. • HF and 6M: 1/4 wave-length • Gain 2M: 1/2 wave-length, 2.15dBi • Gain 70cm: Two 5/8waves in phase, 5.5dBi • Impedance: 50 Ohm • Max Power: HF 200W SSB • 6M–70cm: 150W FM • Conn: SO-239 • Height: Only 86" • Weight: 5lbs. 7ozs.
- COMET GP-9 / GP-9N DUAL-BAND 146/446MHZ BASE REPEATER ANTENNA**
BEST SELLER! Gain & Wave: 146MHz 8.5dBi 5/8 wave x 3 • 446MHz 11.9dBi 5/8 wave x 8 • Max Pwr: 200W • Length: 16' 9" • Weight: 5lbs. 11ozs. • Conn: GP-9 Gold-plated SO-239 • GP-9N Gold-plated N-type female • Construction: Fiberglass, 3 Sections
- COMET GP-24 2.4GHZ ACCESS POINT ANTENNA** The standard high gain 2.4GHz access point antenna for maximum range/signal strength. • Gain: 15.4dBi • Length: 5'10" • Weight: 2lbs. 9ozs. • Conn: Gold-plated N-female • Construction: Heavy-duty white fiberglass radome
- COMET GP-24-3 SPECIAL ORDER.** The same physical high gain 2.4GHz antenna as the GP-24, but with a 3-degree electrical downtilt to concentrate the signal to the horizon and below
- COMET GP-24-S MEDIUM GAIN ACCESS POINT ANTENNA SPECIAL ORDER.** For applications where maximum distance is not as important as a solid signal around and directly below the antenna. • Gain: 9.9dBi • Length: 3'9" • Weight: 1lb. 14ozs. • Conn: Gold-plated N-female • Construction: Heavy-duty white fiberglass radome

WI-FI/802.11B/LAN/HSMM ACCESS POINT ANTENNAS

COMET
and **Maldol** Antennas

For a complete catalog, call or visit your local dealer.
Or contact NCG Company, 1275 N. Grove Street, Anaheim, CA 92806
714-630-4541 • 800-962-2611 • FAX 714-630-7024 • www.natcommgroup.com

ACCLAIMED AS THE TECHNOLOGICAL LEADER IN SINGLE & MULTIBAND ANTENNAS

Wide-band Performance • Highest Gain • Factory Adjusted-No Tuning Required • UPS Shippable
High Wind Rating • Fiberglass Radome • DC Grounded • Stainless Hardware • Mounts & U-Bolts Included

**Ruggedized Base/Repeater Antenna
X500HNA****X500HNA**

Diamond Antenna's best base station repeater antenna. Designed for strength and performance, the X500HNA is pretuned to achieve maximum gain in both the 2m and 70cm amateur bands.

Features

- Heavy duty fiberglass radome
- Overlapping outer shells for added strength
- Stainless steel mounting hardware and radials
- Strong, waterproof joint couplings
- Type-N Cable connection
- Wide band performance

Specifications:

Frequency: 2m: 144-148 MHz 70cm: 440-450 MHz
Gain: 2m: 8.3 dB 70cm: 11.7 dB
Power: 200 watts
Wind Rating: 90 MPH (no ice)
Height: 17.8 feet

X50NA

The X50NA is an excellent choice where ruggedness is required in a medium-gain, dual-band, base/repeater application.

Features

- Wide frequency bandwidth
- Heavy duty fiberglass radome
- Stainless steel mounting hardware and radials
- Type-N Cable connection
- Compact size for easy mounting/installation

Specifications:

Frequency: 2m: 144-148 MHz
70cm: 440-450 MHz
Gain: 2m: 4.5 dB
70cm: 7.2 dB
Power: 200 watts
Wind Rating: 135 MPH (no ice)
Height: 5.6 feet

X30A

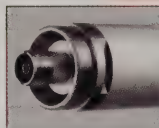
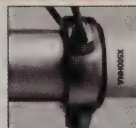
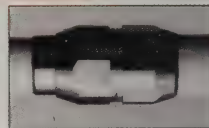
The X30A works well in areas where height and/or antenna restrictions are an issue.

Features

- Wide frequency bandwidth
- Heavy duty fiberglass radome
- Stainless steel hardware
- UHF Cable connection
- Compact size for easy installation

Specifications:

Frequency: 2m: 144-148 MHz
70cm: 440-450 MHz
Gain: 2m: 3.0 dB
70cm: 5.5 dB
Power: 150 watts
Wind Rating: 135 MPH (no ice)
Height: 4.5 feet

X500HNA and X700HNACOAX CONNECTION
AT BASE ENDHEAVY DUTY BASE/
RADIAL ASSEMBLYSTRONG JOINT
COUPLINGS**Mono-Band Base/Repeater Antennas**

MODEL	BAND (MHz)	GAIN (dB)	WATTS	CONN.	HT. FT.	RATED WIND MPH (No. Ice)
CP22E ¹	144	6.5	200	UHF	9.0	70
DPGH62 ¹	50	6.0	200	UHF	21.0	78
F22A	144	6.7	200	UHF	10.5	112
F23A	144	7.8	200	UHF	15.0	90
BC200 ⁶	430-490	6.5	200	UHF	5.6	130
F718A	440	11.5	250	N	15.0	90
F1230A II	1.2 GHz	13.8	100	N	12.0	112
G200	2.4 GHz	11 dBi	—	N	4.8	135

Dual-Band Base/Repeater Antennas

MODEL	BAND (MHz)	GAIN (dB)	WATTS	CONN.	HT. FT.	RATED WIND MPH (No. Ice)
X30A	144/440	3.0/5.5	150	UHF	4.5	135
X50A	144/440	4.5/7.2	200	UHF	5.6	135
X50NA	144/440	4.5/7.2	200	N	5.6	135
X200A	144/440	6.0/8.0	200	UHF	8.3	112
X300A	144/440	6.5/9.0	200	UHF	10.5	112
X300NA	144/440	6.5/9.0	200	N	10.5	112
X510MA	144/440	8.3/11.7	200	UHF	17.2	90
X510NA	144/440	8.3/11.7	200	N	17.2	90
X510HDM	144/440	8.3/11.7	330/250	UHF	17.2	90
X500HNA	144/440	8.3/11.7	200	N	17.8	90+
X700HNA	144/440	9.3/13.0	200	N	24.0	90

Tri-Band Base/Repeater Antennas

Max. requirement: 1'-1'2"

MODEL	BAND (MHz)	GAIN (dB)	WATTS	CONN.	HT. FT.	RATED WIND MPH (No. Ice)
V2000A ^{3,5}	52/144/440	2.1/6.2/8.4	150	UHF	8.3	110
X3200A ⁴	146/222/440	6.0/7.8/8.0	100/200	UHF	10.5	112
X6000A	144/440/1240	6.5/9.0/10.0	100/60	N	10.5	112

BAND: 144-144.148 MHz, 222-222.225 MHz,
420-429.430 MHz, 430-430.440 MHz,
440-440.450 MHz, 1240-1240.1300 MHz

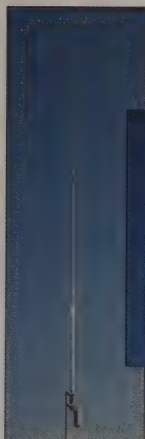
- NOTES: ¹ Heavy duty aluminum construction.
² X510HU: 144-147/430-440 MHz.
³ 1/4", rated in dB.
⁴ 2m: 146-148; 100 watts
⁵ 52-54 MHz, only
⁶ Suitable for 10MHz BW.

Power rating should be reduced in repeater service.

MULTIBAND VERTICAL & YAGI ANTENNAS

Wide-band Performance • Highest Gain • Factory Adjusted-No Tuning Required • UPS Shippable
 High Wind Rating • Fiberglass Radome • DC Grounded • Stainless Hardware • Mounts & U-Bolts Included

BB7V Multiband Vertical Antenna



Diamond's new **BB7V** multiband vertical antenna provides coverage from 2 MHz to 30 MHz without radials. The BB7V has 6 telescoping sections that nest in each other with a collapsed length of 5

feet and extends to a length of 22 feet when fully deployed. These sections are self locking (no hardware to lose) and can be raised or lowered in less than a minute. For permanent use, each section can be locked in place with a single screw. The extreme ease of raising and lowering this 4.5 pound antenna

will make it a favorite for those who have antenna restrictions or travelers wanting a quick and easy wide band antenna solution.

CP725H Quad Band Vertical Antenna



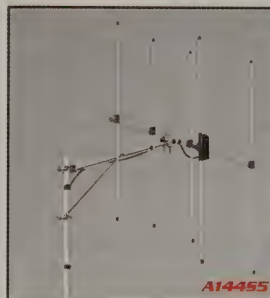
Diamond's new **CP725H** is a four band (6M, 10M, 15M and 40M) vertical antenna with trap radials. Its light weight, 6.6 pounds, makes it very manageable during the installation process and will allow for a simple mast solution. It is 11.8 feet tall with 71" long radials that can be mounted 360 degrees around the antenna or concentrated on one side if you need to mount it close to a structure.

Because of its light weight, and the ability to concentrate radials on one side, the CP725H could be used in an antenna restricted situation where the mast was lowered on its side during daylight and raised while operating during the evening.

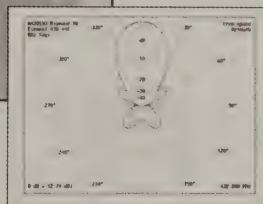
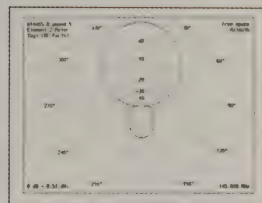


Vertical Antennas

MODEL	FREQ (MHz)	IMPEDANCE	WATTS (PEP)	CONN.	BOOM LNTH.	WEIGHT
BB7V	2-30 (W/TUNER)	50Ω	250	UHF	60"/22'	4.5 lbs.
CP725H	6m/10m/15m/40m	50Ω	200/400/500/500	UHF	11.8'	6.6 lbs.



Yagi Antennas



Yagi Antennas

MODEL	BAND (MHz)	GAIN (dBi)	WATTS (PEP)	CONN.	BOOM LNTH.	ELEMENT PHASING
A502HB	50	6.3	400	UHF	2.6'	2 element
A144S5	144	9	100	UHF	37.5"	5 element
A430S10	432	13	100	UHF	43"	10 element
A430S15	432	14.8	100	UHF	89"	15 element

DIAMOND'S STATE-OF-THE-ART VHF/UHF & HF/VHF MOBILE ANTENNAS

Maximum Performance Without Compromise

HV7A Mobile Antenna System

For New HF/VHF transceivers

(Such as: IC706 & IC7000 series, FT100, FT857 & NEW FT8900R)

The HV7A has 5 band capability: 70cm, 2m, 6m, plus 2 HF bands through use of loading coils. Foldover feature allows for easy access into low over-head buildings. Ideal for users of IC706 & IC7000 series, FT100, FT857 and New

FT8900R radios. Duplexer may be required for some radios.



Recommended Antenna Mounts:
K400C, K400S, K600S or K600M

Bands Supplied: 10m/6m/2m/70cm
Power, P.E.P.: HF 120w/VHF 200w
Mount Connection: UHF
Length: 54"
SWR: 1.5:1 nominal
Opt. Loading Coils:
HVC7 40m
HVC14 20m
HVC18 17m
HVC21 15m



FOLD-OVER

One-Touch Fold-Over Feature.**

MODEL	BAND (MHz)	GAIN (dBi)	WATTS (PEP)	CONN.	HT IN.	ELEMENT PHASING 1/4λ rated in dBi
M285S ¹⁰	2m	3.4	200	UHF	52.4	5/8λ
M285SNMO ¹⁰	2m	3.4	200	NMO	52.4	5/8λ
NR22L*	2m	6.5	100	UHF	96.8	2-5/8λ
SG2000HD*	2m	5.2	250	UHF	62.6	1/2λ + 3/8λ
HF6FX ⁶	6m	2 dBi	250	UHF	40	1/4λ
HF50CX ⁶	6m	3.5 dBi	200	UHF	75	3/8λ
M685S ⁶	6m	2.15 dBi	200	UHF	52.4	1/4λ
M685SNMO ⁶	6m	2.15 dBi	200	NMO	52.4	1/4λ
NR140BNMO	1-1/4m	4.0	150	NMO	37	1/2λ + 1/4λ
NR124NMO	23cm	8.4	100	NMO	25	4-5/8λ
MG200	2.4GHz	7 dBi	-	N	23.6	3-1/2λ
CR270A	2m/70cm	2.15/3.4	50	UHF	17	1/4λ, 5/8λ
NR77	2m/70cm	2.15/3.4	70	MAG	20	1/4λ, 1/2λ
NR77SMA	2m/70cm	2.15/3.4	70	MAG	20	1/4λ, 1/2λ
NR72BNMO ⁶	2m/70cm	2.15	100	NMO	13.8	1/4λ, 1/2λ
NR73BNMO	2m/70cm	2.15/5.3	100	NMO	33.5	1/2λ, 1-5/8λ
NR770HA ⁷	2m/70cm	3.0/5.5	200	UHF	40.2	1/2λ, 2-5/8λ
NR770HNMO ⁸	2m/70cm	3.0/5.5	200	NMO	38.2	1/2λ, 2-5/8λ
NR7900A*	2m/70cm	3.7/6.4	300/250	UHF	57	1/4λ + 1/2λ, 3-5/8λ
SG7000A ⁶	2m/70cm	2.15/3.8	100	UHF	18.5	1/4λ, 6/8λ
SG7500A	2m/70cm	3.5/6.0	150	UHF	40.6	1/2λ, 2-5/8λ
SG7500NMO	2m/70cm	3.5/6.0	150	NMO	41.0	1/2λ, 2-5/8λ
SG7900A*	2m/70cm	5.0/7.6	150	UHF	62.2	7/8λ, 3-5/8λ
SG7900ANMO*	2m/70cm	5.0/7.6	150	NMO	62	7/8λ, 3-5/8λ
SGM510	2m/70cm	2.15/5.5	100	UHF	37	1/2λ, 2-5/8λ
CR320A ⁶	2m/1-1/4m/70cm	2.15/3.8/5.5	200/100/200	UHF	37.4	1/4λ, 1/2λ, 2-5/8λ
CR320BNMO ⁶	2m/1-1/4m/70cm	2.15/3.8/5.5	200/100/200	NMO	38	2-5/8λ
NW2000NA	2m/70cm/23cm	3.15/6.3/9.7	100	N	39	1/2λ, 2-5/8λ, 5-5/8λ
CR627B ^{6,9}	6m/2m/70cm	2.1/4.5/7.2	120	UHF	60	1/4λ, 1/2λ + 1/4λ
CR627BNMO ^{6,9}	6m/2m/70cm	2.1/4.5/7.2	120	NMO	60	2-5/8λ
SGM911 ^{6,9}	6m/2m/70cm	2.15/3/5.8	60	UHF	41	1/4λ, 1/2λ, 2-5/8λ
CR8900A ^{6,11}	10m/6m/2m/70cm	2.1 (2m) 5.5 (70cm)	60	UHF	50	1/4λ, 1/4λ, 1/2λ, 2-5/8λ

6 Grounding required

7 NR770HB some specs but in black finish.

8 NR770HBNMO some specs but in black finish.

9 52-54MHz only

10 Tunable from 140-174MHz

11 FM only

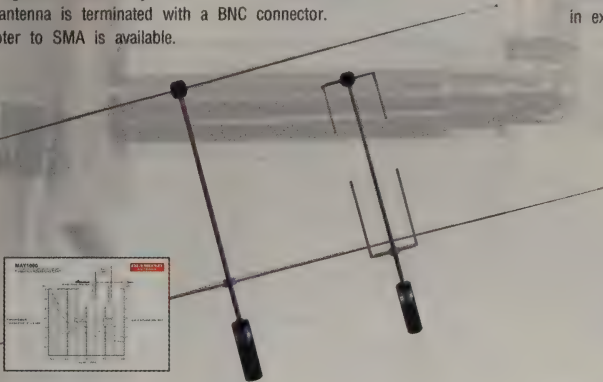
* Not recommended for Magnet Mount

** Fold-Over not available on CR-270A, M285, M285NMO, M685, M685SNMO, MG200, NR77, NR77SMA, NR72BNMO, and NR73BNMO

HT/SCANNER ANTENNAS

Handheld Direction Finding Beam Antenna

The MAY1000 handheld beam is a great antenna for radio direction finding on frequencies ranging from 120MHz up to 500MHz. Every aspect of the MAY1000 is adjustable to optimize the antenna for a specific frequency using a provided measuring tape and a laminated frequency chart. Whether you are tracking birds, dogs, ELTs or a stuck transmitter, this antenna will be a great addition to your kit. The 39" cable attached to the antenna is terminated with a BNC connector. Adapter to SMA is available.



Mobile Discone Antenna

The D220 mobile discone antenna offers outstanding broad-band reception performance from 100MHz to 1600MHz. The discone is vertically polarized and omnidirectional. The upper element is tuned for the 144, 440, 902 and 1.2Ghz ham bands and allows you to transmit at a maximum power level of 50 watts. The antenna will mount on the Diamond K400/K600 series of mounts, and will withstand wind speeds in excess of 100MPH.

Receive: 100 to 1600MHz
 Transmit: 144, 440, 902, 1200MHz
 Gain: 2.15dBi 144, 902, 1200MHz,
 5.5dBi 440MHz
 Power: 50watts PEP
 Impedance: 50 ohms
 VSWR: less than 1.5:1
 Type: 1/2 wave 144MHz,
 2 x 5/8 wave 440MHz
 Length: 35.5" / .90m
 Weight: .85 pounds / 385g
 Connector: UHF / PL259
 Mounts: K400 and K600 series



HT/Scanner Antennas

High quality, high gain HT antennas for mono, dual, and tri-band handheld radios. Available in both BNC and SMA connections. Increase the performance on your handheld or wideband scanner with a Diamond RH or SRH Series antenna.

SRH320A SMA

2m/1-1/4m/70cm tri-band HT antenna. Flexible.
 13 3/4", 10 watts, +3dBR.

SRH805 SMA

2m/70cm/23cm tri-band HT antenna.
 1.75", 10 watts.

SRHB15 SMA

2m/70cm/23cm tri-band HT antenna.
 Flexible. 6", 6 watts, +3dBR.

SRH940 SMA

6m/2m/70cm flexible tri-band HT antenna. 18", 10 watts, +2.15dBi. 1/4λ. 50-144MHz, 1/2λ. 440MHz.

SRH789 SMA

RH789 BNC
 Adjustable 1/4λ. 93-300MHz; 5/8λ. 300-1100MHz,
 7 3/4"-32" +9dBR.

RH9515 BNC

High gain 2m/70cm/23cm slim tri-band HT antenna.
 Flexible. 14" (Wide band receive), +6dBR.

RH3 BNC

2m/70cm dual band "Black Bullet" HT antenna.
 1.75". 120-900 receive.

RH77CA BNC

High gain 2m/70cm dual band HT antenna.
 Receive range to 900 MHz. 15", +6dBR.

SRH77CA SMA

High gain 2m/70cm dual band flexible HT antenna.
 15", 10 watts, +6dBR.

SRHF40 SMA

RHF40 BNC
 Super flexible, high gain 2m/70cm dual band HT antenna. Receive range to 900 MHz. 15", +6dBR.

RH205 BNC

2m HT antenna, telescopic, 5/8λ. fully extended, 47.5"; 1/4λ. retracted, 9", +9dBR.

RH707 BNC

2m/70cm dual-band tiltable whip - HT antenna.
 8 1/4", +3dBR.

SRH999 SMA

6m/2m/70cm/23cm quad-band HT antenna. Flexible.
 19.5", 10 watts, +6dBR.

SRH519 SMA

RH519 BNC
 2m/70cm slim dual-band HT antenna.
 Flexible. 8", 10 watts, +3dBR.

NOTES: 1. dBR refers to Relative Gain increase over typical factory supplied antenna.

PREMIUM ANTENNA MOUNTS

K400 Series

Heavy Duty Hatchback/Door/Trunk Lid Mount



Deluxe heavy duty mount. Two-axis adjustable. 4" wide mounting base with 4 set screws for maximum strength. Recommended for high gain VHF/UHF antennas. Will support ATAS 120, Tarheel II, High Sierra Sidekick & Outbacker.

- K400C*** SO-239 base, 6.5" RG-316/B coax & PL-259
K400CMMO* NMO base, 6.5" RG-316/B coax & PL-259
K400-3/B/C* 3/8x24 base, 6.5" RG-316/B coax & PL-259
K400S† SO-239 base, 13.5" RG-316/B coax & SMA
K400SNMO† NMO base, 13.5" RG-316/B coax & SMA

K412 Series

Deluxe Hatchback/Door/Trunk Lid Mount

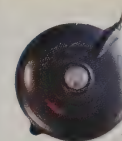


Three-axis adjustable mount for light weight antennas. 1.5 inch mounting width. Ideal for tight mounting options. Recommended for antennas under 45". Position adjusting knob.

- K412C*** SO-239 base, 6.5" coax & PL-259
K412CNMO* NMO base, 6.5" coax & PL-259
K412S† SO-239 base, 13.5" coax & SMA
K412SNMO† NMO base, 13.5" coax & SMA

K702M

Deluxe Low Profile Magnet Mount



Magnet mount with high holding power. Aerodynamic styling, large 6 3/8" dia., 3/4" h. For VHF/UHF antennas up to 50" h. Includes thin mylar protective sheet to enhance grip and protect paint. SO-239 base, 13" RG58A/U cable with PL-259 connector.

Heavy Duty Magnet Mount

2.2 lb/4" magnet mount rated 25-500 MHz. Cable: 13" RG58A/U coax and PL-259. Recommended for antennas under 45".



- SPM35** SO-239 mount, with PL-259 connector.
DPK4NM-N Type-N mount, with Type-N connector.
SPM-NMO NMO mount, with PL-259 connector.

K515 Series

Universal Luggage Rack Mount

Ideal for new SUV luggage racks; accepts 3/4" to 2-1/4" in height and up to 2-1/4" wide. Two axis adjustable mount for medium-weight VHF/UHF antennas under 45", not requiring RF ground. Position adjusting knob allows antenna to fold over, and lock into horizontal position.



- K515S†** SO-239 base, 13.5" coax & SMA, PL-259
K515SNMO† NMO base, 13.5" coax & SMA, PL-259

K550

Luggage Rack Mount

Adjustable luggage rack mount for new mini vans. Recommended for antennas under 45". Position adjusting knob allows antenna to fold to horizontal position.



- K550KM** SO-239 base, 13" coax & PL-259
K550 Mount Only

K540

Mirror/Luggage Rack Mount



Adjustable Mirror/Luggage rack mount accepts 1/2" to 7/8" tubing. Fits most mirrors and utility racks. Recommended for antennas under 45". Position adjusting knob allows antenna to fold over and lock into horizontal position.

- K540KM** SO-239 base, 13" coax & PL-259
K540 Mount Only

CRM

Mirror/Luggage Rack Mount

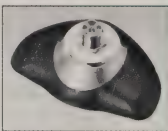
Stainless steel right angle mount with U-bolt. Recommended for: Motor home ladders, Balcony railings and Lumber racks.



K500

Variable Angle Trunk Mount

Deluxe aerodynamic trunk mount. Vertical adjustment 0-9°. 4" wide mounting base with 4 set screws for maximum strength. Recommended for high gain VHF/UHF antennas.



- K500M** SO-239 base, 16.5" two-step RG-188 Teflon® + 10" SO coax & PL-259
K500S† SO-239 base, 13.5" RG-316 Teflon® coax & SMA

HRKS

Adhesive Backed Mount

Adhesive backed for flat surface installations including glass, fiberglass, and metal. SO-239 base, 13.5" RG-316/B Teflon® coax with SMA connector. PL-259 adapter included. Recommended antennas: NR770HA, NR770HB, and SGM510.



K9000

Motorized Mount



Raise and lower your antenna with a touch of a button. Accepts "ground independent" antennas up to 45". 0-90° range. Recommended antennas: SG7500NMO, NR738NMO, SG7500A, and NR770 series. Recommended cable group: C213 / C213NMO

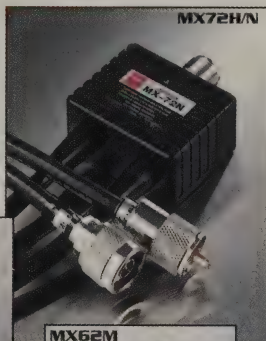
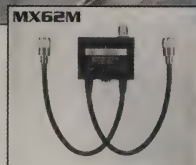
- K9000TM*** Trunk/Hatchback Mount
K9000LRM* Luggage Rack Mount
K9000LRMO* Luggage Rack Mount - Oversize/K515 style clamp.

* Use C110 for front radio installations.
 † includes SMA to PL259 adapter

CABLE ASSEMBLIES - COAX SWITCHES LIGHTNING PROTECTION - DUPLEXERS & TRIPLEXERS

Duplexers & Triplexers


MX2000

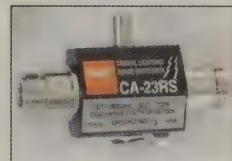
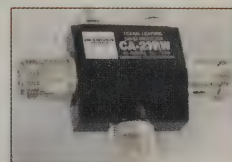
MX72D

MX72H/N

MX62M

Dummy Loads & Coaxial Switches


DL30A

DL30N

CX10A/N

CX310


MODEL	MX72D	MX72H	MX72N	MX2000			MX62M	
FREQUENCY	LPF		HPF	LPF	BPF	HPF	LPF	HPF
BAND (MHz)	1.6-30	140-150	400-460	1.6-60	110-170	300-950	1.6-56	76-470
PWR CW (ICAS)	400	150	100		800	500		600
WATTS P.E.P.	1000	400	250	800	800	500		600
THRU LOSS/dB	0.15	0.15	0.25	0.15	0.2	0.25	0.2	0.3
ISOL		60dB			60dB			50dB
VSWR		1.2:1			1.2:1			1.2:1
CONNECTOR COMPLEMENT	(M) MIX 144 430 (M) (M)	(M) MIX 144 430 (M) (M)	(M) MIX 144 430 (M) (N)	(M) MIX 50 144 430 (M) (M) (M)			(M) MIX HF VHF (M) (M)	
CONNECTOR	Direct	12" Cable w/Connectors		12" Cable w/PL259			12" Cable w/PL259	

MODEL	DESCRIPTION
CA35RS	Lightning surge protector, DC-1000 MHz, 400w, SO-239
CA35RPW	Lightning surge protector, DC-1000 MHz, 400w, UHF(F) to UHF(M), Waterproof.
CA23RS	Lightning surge protector, DC-2500 MHz, 200w, Type-N (F)
CA23RW	Lightning surge protector, DC-2500 MHz, 200w, Type-N (F) Waterproof.
CX210A	Heavy duty wideband coax switch, DC-1000 MHz. 1.5 kW, SO-239
CX210N	Heavy duty wideband coax switch, DC-1500 MHz. 1.5 kW, Type-N
CX310A	Heavy duty wideband coax switch, 3 position, DC-800 MHz, SO-239
DL30A	Dummy load, DC-500 MHz. 15w average/100w peak. PL-259
DL30N	Dummy load, DC-500 MHz. 15w average/100w peak. Type-N

Cable Assemblies


C101

C101

SO-239 base, 6.5' RG316 Teflon® coax & PL-259. Ideal cable assembly for trunk mount radios.

C101NMO Same as C101 with NMO base. For Diamond's K-Series mounts.

C213 Same as C101, 13.5' RG-316 Teflon® cable

C213NMO Same as C101NMO, 13.5' RG-316 Teflon® cable


C1045MA

C1045MA

4' extension cable for HT's with SMA connector. For existing cable assemblies with PL-259. UHF female (SO-239) to right angle SMA male.


C110

C110

Extension for C101. 10' RG8X coax w/mini UHF Conn. Use C110 to extend cable for front radio installations.

C110BNC

10' assembly similar to above, uses RG316 Teflon® Coax terminating in BNC-male. Similar to C110BNC, terminates in SMA-male.

C110SMA

C211

SO-239 base, 16.5' assembly & PL-259.

Combination of C101 & C110.


C1055MA

C1055MA

5' extension cable for C101. RG58/U cable, terminating in right angle SMA male.

LARSEN® - The Amateur's Professional

2M/70CM Dual Band Series Antennas

Larsen dual band antennas provide excellent performance for simultaneous use of VHF and UHF amateur frequencies. Each Larsen dual band antenna is factory preset to guarantee optimum performance with no tuning required.

NMO2/70SH \$49.99

Freq: 144-148/440-450 MHz
Gain: Unity/1.8 dBd
Power: 200 Watts
Type: VHF: Center Loaded 1/4 Wave
UHF: Center Loaded 3/4 Wave
Base: NMOUHFBASEB
Height: 19"
Whip: WNMO2/70SH

Lower profile amateur 2m/70cm dual band antenna with spring for NMO mounts.

NMO2/70B \$79.99

Freq: 144-148/440-450 MHz
Gain: 1.6/3.5 dBd
Power: 100 Watts
Type: VHF: Center Loaded 1/2 Wave
UHF: Collinear
Base: NMO2/70BCO
Height: 36.75"
Whip: W2/70B

Amateur 2m/70cm dual band antenna for NMO mounts.

MM2/70PL \$64.99

Freq: 144-148/440-450 MHz
Gain: Unity/1.8 dBd
Power: 200/100 Watts
Type: VHF: Center Loaded 1/4 Wave
UHF: Center Loaded 3/4 Wave
Base: 3" Round Mag Mount
Height: 18"
Whip: WMM2/70

Complete 2m/70cm magnetic mount antenna with 12' of RG-58A/U coax.

Kulglass Series High Performance Glass Mount Antennas

Larsen's Kulglass™ (KG) series uses a patented low impedance design and advanced materials to produce the world's best on-glass antenna. The KG uses advanced resin polymer plastic to completely enclose the circuit board or loading coil for mechanical durability and weather resistance. 3M's best adhesive tape, plus Larsen's unique bonding enhancer ensure the best possible grip to the glass.

KG2/70CXPL \$139.99

Freq: 144-148/442-448 MHz
Gain: 0/2 dBd • 2.4/4.5 dBd*
Power: 100 Watts
Type: VHF: 1/2 Wave
UHF: Collinear
Base: KG2/700/S
Conn: PL-259
Height: 32.75"

* Ground plane required for gain.

Glass mount dual band antenna for 2m/70cm amateur radio frequencies with coax and connector.

KG144UDPL \$89.99

Freq: 144-160 MHz
Gain: Unity
Power: 100 Watts
Type: 1/2 Wave
Base: KG1440/S
Conn: PL-259
Height: 48"
Whip: WKG144

Complete KG glass mount antenna with coax and connector

KG440UDPL \$73.99

Freq: 440-460 MHz
Gain: Unity
Power: 100 Watts
Type: 1/2 Wave
Base: KG4400/S
Conn: PL-259
Height: 15"
Whip: WKG440

Complete KG UHF glass mount antenna with coax and connector.

Larsen Exclusive Kulduckie Portable Series

Superior transmit range and tough mechanical durability are the hallmark of Larsen portables. Full soldered connections and silver-plated components improve electrical efficiency. Double spring BNCs reduce wear on the mount. Other styles are available.

KD4146HQ \$25.99

Freq: 144-148 MHz
Gain: Unity
Power: 25 Watts
Type: 1/4 Wave Helical
Conn: BNC
Height: 10.5"

KD142MHW \$38.99

Freq: 144-148 MHz
Gain: Unity
Power: 25 Watts
Type: 1/2 Wave Telescoping
Conn: BNC
Height: 11 to 44.5"
Whip: WKD142HW

KD42/70 \$39.99

Freq: 144-148/440-450 MHz
Gain: Unity
Power: 25 Watts
Type: VHF: Loaded 1/4 Wave
UHF: 1/4 Wave
Conn: BNC
Height: 9"

Impedance matching transformer provides high Q and deeper resonance.

KD14445 \$19.99

Freq: 406-512 MHz (SPEC 445 MHz)
Gain: Unity
Type: 1/4 Wave
Conn: BNC
Height: 6.5"

OM150CK \$69.99

Complete self-mounting, no ground plane antenna with internally attached cable. Black coil, chrome whip, field tunable.

Freq: 144-174 MHz
Gain: 2.5 dBd*
Power: 200 Watts
Type: 1/2 Wave
Height: 51.75"
Whip: W490
Coax: 17' of RG-58A/U
Conn: PL-259

* Ground plane required for gain.



A Pulse Brand
3611NE 112th Avenue
Vancouver, WA 98682
360-944-7551 / 800-426-4656
Fax: 800-525-6749
Email: info@larsen.pulseeng.com
Web: www.larsen-antennas.com

Hear The Difference!

Industry's Best NMO Mobile Antennas

Larsen's version of the standard 3/4" Motorola TAD/TAE type mount (NMO) uses advanced design, materials and construction to provide a premium mount. For demanding outdoor applications, the chemical resistant NMO series is housed in a resin polymer plastic shell which is completely molded around the nickel plated brass whip stud to eliminate moisture damage. Our super seal gasket also greatly reduces water intrusion under the base.

NMO27C (Chrome) \$32.99

NMO27B (Black) \$36.99

Freq: 27-31 MHz
Gain: Unity
Power: 150 Watts
Type: Loaded 1/4 Wave
Base: NMO27BCO
Height: 53"
Whip: W490

NMQSPEC (Chrome) \$24.99

NMQSPECB (Black) \$15.99

NMQSPECCK (3/4" Kit Chrome) . . \$24.99

Freq: 136-960 MHz
Gain: Unity
Power: 200 Watts
Type: 1/4 Wave
Height: 22"
Whip: W200

NMO50C (Chrome) \$32.99

NMO50B (Black) \$36.99

Freq: 47-54 MHz
Gain: Unity
Power: 150 Watts
Type: Loaded 1/4 Wave
Height: 52.5"
Whip: W490

NMO150C (Chrome) \$30.99

NMO150B (Black) \$33.99

Freq: 144-174 MHz
Gain: 3 dBd
Power: 200 Watts
Type: 5/8 Wave
Height: 51.5"
Whip: W490

NMO440C (Chrome) \$29.99

Freq: 440-460 MHz
Gain: 3.4 dBd
Power: 200 Watts
Type: 5/8 over 1/2 Wave
Height: 33"
Whip: W154

NMO900B (Black) \$39.99

Freq: 890-960 MHz
Gain: 3.4 dBd
Power: 200 Watts
Type: 5/8 over 1/2 Wave
Height: 12.75"
Whip: W195B.100, enclosed coil

Base Station Antennas

Larsen manufactures a variety of small base station antennas for directional and omni-directional applications. Each base station antenna is designed with premium materials to withstand the most demanding weather conditions. All base station antennas come with mounting hardware to attach to a pole up to 2" in diameter.

BSAKIT \$53.99

Freq: 144-512 MHz
VSWR: 1.5:1 or less
Power: 200 Watts
Conn: UHF Female
Whip: 51.75"

Complete base station kit for designing a base station unit from 144-152 MHz. Comes with mounting hardware (antenna is extra). Works with NMO and UHF mount antennas.

Mobile GPS Antenna

GPSNMO02 \$69.99

Freq: 1575.4 MHz
Gain: 5 dBic/28 ± 2 dB (LNA)
Voltage: 5 VDC
Type: GPS NMO
Height: 1.3"
Diameter: 3"

Mounts

Larsen has a full line of permanent and temporary mounts to solve nearly every installation problem. Each mount is manufactured of the highest quality materials, including premium coaxial cable.

NMOK \$15.99

Motorola-style Roof Mount
Size: 3/4"
Coax: 17' RG-58A/U
Conn: PL-259



NMOTLP \$29.99

Motorola-style Low Profile Trunk Lip Bracket, Black
Size: 1.75" x 1.75"
Coax: 17' RG-58A/U
Conn: PL-259



NMOMMR \$32.99

Motorola-style Round Magnetic Mount
Size: 3.5" Round
Coax: 12' RG-58A/U
Conn: PL-259
Pull Strength: 90 lbs.



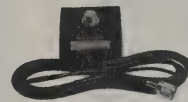
POK \$32.99

S0-239 female type roof mount
Size: 3/4" hole
Coax: 17' RG-58A/U
Conn: PL-259



POMM \$36.99

S0-239 female type magnetic mount
Size: 3.5" x 3" rectangle
Coax: 17' RG-58A/U
Conn: PL-259
Pull Strength: 90 lbs



NMOKHFUD . . . \$12.99

NMO style roof mount
Size: 3/4" hole
Coax: 17' RG-58A/U
Dual Shield
Conn: Not Included



Parts and Accessories

W490 \$9.99

Chrome .100 tapered replacement whip for 144 MHz (49")

W490B \$12.99

Black .100 tapered replacement whip for 144 MHz (49")

W2/70B \$29.99

Black .100 tapered replacement whip for NMO2/70B (approx. 31")

RGSS \$5.99

3 SuperSeal NMO Gaskets

SPRING \$10.99

Shock Spring

HP34 \$3.99

(5) 3/4" Rubber hole plugs

KGREINSTALL \$9.99

Reinstall Kit for KGs

NMOCAPB \$5.99

Black NMO Rain Cap



A Pulse Brand
3611NE 112th Avenue
Vancouver, WA 98682
360-944-7551 / 800-426-4656
Fax: 800-525-6749
Email: info@larsen.pulseeng.com
Web: www.larsen-antennas.com

THE PERFECT ANTENNA

For almost 2 decades GAP has stated there is no perfect antenna. No singular antenna can do it all. That is why we designed a family of antennas that utilize the patented (#5,592,183), GAP Technology, to give you options. Within this family is the antenna right for you. If deed restrictions or visibility are a problem, take a look at the Eagle DX. If you are looking for a simple general coverage antenna with capture area, consider the Challenger DX. What about a low band antenna with great 40m and 80m performance? The Voyager DX is worth your attention. If you seek the most popular multiband antenna, then the Titan DX will end your search.

The GAP Technology eliminates traps, electromechanical devices and coils, which can increase loss and decrease reliability. Simplicity in design results in a very user friendly assembly process. Slide one tube over another until the big hole lines up with the little and insert a screw. A GAP is retuned, will handle 1500W PEP, and has a VSWR < 2:1 across the entire band.*

CATCH THE WAVE



TITAN DX

10m, 12m, 15m, 17m,
20m, 30m, 40m, & 80m
25' tall 25 lbs

Mounts on 1-1/4" OD
mast

No radials required.

*VSWR under 2:1 on
80m 100 KHz



CHALLENGER DX

2m, 6m, 10m, 12m,
15m, 20m, 40m, & 80m
31.5' tall 21 lbs

Drop in ground mount
supplied.

3 counterpoises
required 25' long.

*VSWR under 2:1 on
80m 130 KHz



VOYAGER DX

20m, 40m, 80m, &
160m

45' tall 39 lbs

Supplied with hinged
ground mount.

3 counterpoises
required 57' long.

*VSWR under 2:1 on
160m 90 KHz



EAGLE DX

10m, 12m, 15m, 17m,
20m & 40m

21' tall 19 lbs

Mounts on 1-1/4" OD
mast

No radials required.

*40m limited to
400 watts

QUICK TILT

The easy way to raise and lower your
antenna, support mast or flagpole.
Works with most antennas.

GROUND MOUNT



Accommodates
1 1/4" 2" OD Mast

LADDER MOUNT



ANTENNA ACCESSORIES FOR ALL



GUY KITS

Insure your antenna or support mast
against the elements with a Guy Kit.



STAINLESS STEEL & ALUMINUM CONSTRUCTION

STAINLESS STEEL & ALUMINUM CLAMP
3/32" UV Protected Black Double Braided Polyester Rope

NOISE CANCELLATION EQUIPMENT

PROVIDES 9-35dB DSP RECEIVE NOISE CANCELLATION



HEAR IT IN-LINE MODULE

Put a HEAR IT in-line Module between
your rig and speaker and KILL noise.

- 8 User Selectable levels of DSP noise cancellation
- Audio & Line level inputs and outputs
- 12-24 VDC • 2.5W maximum audio output
- On/Off audio bypass switch
- Headphone jack
- Dim: 6.75" w x 3.35" h x 1.4" d

HEAR IT SPEAKER

Base or Mobile - the HEAR IT will
dramatically improve your audio.

- 8 user selectable levels of DSP noise cancellation
- 12-24 VDC power requirement
- 2.5W maximum audio output
- Input sensitivity control
- Headphone jack
- On/Off audio bypass switch
- 6 ft. audio lead with 3.5mm plug
- Dim: 4.5" w x 2.75" h x 2.25" d

**For Prices see GAP
in the PRICE GUIDE**



FRONT VIEW



REAR VIEW



Model G3-144 . . . \$74.99

The G3-144 is the newest addition to the Hustler Base Station line. Designed with the cost conscious amateur in mind, this small, inexpensive antenna delivers more gain than other antennas in its price range. Ideal for a home or emergency command post.

ELECTRICAL

- Frequency Range: 144 - 148 MHz.
- Gain: 3 dB
- Maximum Power: 1 KW FM
- Bandwidth: 4 MHz
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

MECHANICAL

- Termination: SO-239
- Length: 7' 5"

- Weight: 2.0 lbs
- Wind Survival: 100 mph.
- Wind Area: 0.5 ft.²
- Mounting: 1 to 1 1/4"

- Construction: High strength



Model
G3-144

Model G6-270R . . . \$199.99

Dual band 2 Meter & 440 MHz

ELECTRICAL

- Frequency range: 144 - 148 MHz, 435 - 455 MHz.
- Gain: 6 dB
- Maximum power: 100 Watts
- Bandwidth: 4 MHz - 2 Meters 10 MHz - 440 Meters
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

MECHANICAL

- Termination: N female
- Length: 7' 6"

- Weight: 5.3 lbs.
- Wind Survival: 100 mph
- Wind Area: 1.4 ft.²
- Mounting: Up to 1 1/4"

- Construction: one piece radome



G6-270R

Model G6-440 . . . \$179.99

ELECTRICAL

- Frequency range: 440 - 450 MHz.
- Gain: 6 dB
- Maximum power: 1 KW FM
- Bandwidth: 10 MHz.
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

MECHANICAL

- Termination: Type N female
- Length: 7' 3"

- Weight: 5.0 lbs.
- Wind survival: 100 mph.
- Wind Area: 1.4 ft.²
- Mounting: Up to 1 1/4"



G6-440

VHF and UHF Omni Directional Fixed Station Vertical Antennas

Model G7-144 . . . \$199.99

Two Meter

The G7-144 is totally self supporting and is easily assembled. When disassembled the longest part is approximately 4' which makes it easy to handle and ship via UPS.

ELECTRICAL

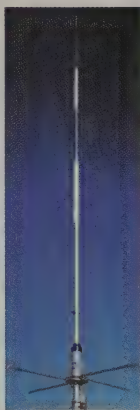
- Frequency Range: 144 - 148 MHz.
- Gain: 7 dB
- Maximum Power: 1 KW FM
- Bandwidth: 4 MHz.
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

MECHANICAL

- Termination: N female
- Length: 15' 4"

- Weight: 10.0 lbs.
- Wind survival: 100 mph
- Wind Area: 0.96 ft.²
- Mounting: Up to 1 1/4"

- Construction: High strength fiberglass & aluminum.



G7-144

Model G6-144B . . . \$139.99

Two Meter

ELECTRICAL

- Frequency range: 143 - 149 MHz.
- Gain: 6 dB
- Maximum power: 1 KW FM
- Bandwidth: 6 MHz.
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

MECHANICAL

- Termination: SO-239
- Length: 9' 9"

- Weight: 6.8 lbs.
- Wind survival: 100 mph.
- Wind Area: 1.4 ft.²
- Mounting: Up to 1 1/4"



G6-144B

Model G7-220 . . . \$169.99

ELECTRICAL

- Frequency range: 220 - 225 MHz.
- Gain: 7 dB
- Maximum power: 1 KW FM
- Bandwidth: 5 MHz.
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

MECHANICAL

- Termination: Type N female
- Length: 10' 2"

- Weight: 7.0 lbs.
- Wind survival: 100 mph.
- Wind Area: 0.96 ft.²
- Mounting: Up to 1 1/4"



G7-220

Fixed Station Multi-Band HF Vertical Antennas

Our exclusive trap design offers the lowest loss possible. A special extrusion process allows us to produce trap covers to an otherwise unattainable close tolerance, assuring accurate and permanent resonance. Our highly accurate traps provide top signal reports and consistent contacts. Accurate tuning is made possible by the wide range of tuning flexibility designed into our verticals. Not only can you use the normal adjustable tubing to change resonance, but the traps themselves can be field tuned for an additional 2 MHz. shift. This flexibility will enable you to achieve a good S.W.R. even if your installation is not ideal.

- Broadbanded - low VSWR at band edges
- Power capability - full legal limit on SSB or CW
- Solid one inch fiberglass trap forms for optimum electrical and mechanical stability
- Heavy wall, high strength aluminum tubing, heavy duty aluminum mounting bracket and low loss, high strength insulators.
- Stainless steel clamps and hardware.
- Easy assembly and tuning.
- Single line feed with any length of 50 ohm coax.
- Use as ground mount with or without radials, or elevated mount with radials.
- All of the BTVs can be mounted in a piece of PVC and disguised as a flagpole in deed restricted neighborhoods.

Model 6-BTV . . . \$199.99

Bands 10-15-20-30-40 & 75 or 80 meters Length/weight 24 ft. / 16.5 lbs.

Mounting Vertical support up to 1.75 O.D.

Wind Load 29 lbs. @ 70 mph. Power capability Full legal limit SSB/CW VSWR at resonance 1.15 to 1 or better Bandwidth VSWR 2:1 or better at band edges on 10-40 meters (100 KHz. On 75 or 80 meters)

Model 5-BTV . . . \$179.99

Bands 10-15-20-40 & 75 or 80 meters Length/weight 25 ft. 1 in. / 16.5 lbs.

Mounting Vertical support up to 1.75 O.D.

Wind Load 29 lbs. @ 70 mph. Power capability Full legal limit SSB/CW VSWR at resonance 1.15 to 1 or better Bandwidth VSWR 2:1 or better at band edges on 10-40 meters (100 KHz. On 75 or 80 meters)

Model 4-BTV . . . \$149.99

Bands 10-15-20-40 meters Length/weight 21 ft. 5 in. / 15 lbs.

Mounting Vertical support up to 1.75 O.D.

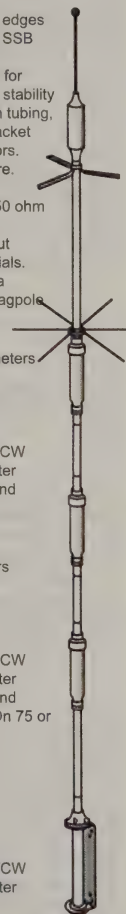
Wind Load 28 lbs. @ 70 mph. Power capability Full legal limit SSB/CW VSWR at resonance 1.15 to 1 or better

Model 30-MTK . . . \$47.99

30 meter add on kit for the 4 and 5 BTV

Spirit Series - Repeater Antenna

Hustler's omnidirectional, collinear design repeater antennas are enclosed in a rugged fiberglass radome that will help minimize pattern variations due to high winds or extreme conditions. Great for your club or tower use. We offer these antennas in 144, 220, 440, 900 MHz and 1.2 Ghz. The gain will be unity, 3.6, 9, or 12 dB depending on the frequency. Custom frequencies available, call for a quote.



New-Tronics Antenna Corporation
225 Van Story Road
Mineral Wells, Texas 76067-9563

Phone: 940.325.1386
Toll Free: 877.994.9499
Fax: 940.325.5077

www.new-tronics.com

Unity Gain

THF . . . \$25.99

VHF/UHF Trunk Lip Mount Antennas.

- Frequency range: 140-500 MHz
- ¼ wave length
- Cut length for low VSWR
- 15 ft RG58/U with PL-259 connector

UHT-1 . . . \$17.99

VHF/UHF Roof/Deck Hole Mount Antenna.

- Frequency range: 140-500 MHz
- ¼ wave length
- Cut length for low VSWR
- 15 ft RG58/U

UGM . . . \$23.99

VHF/UHF Magnetic Mount Antenna

Extend the range of handheld or portable radios. Trimmable 17-7 PH stainless steel radiator is cut to ¼ wavelength for low SWR and unity gain from 140 to 500 MHz. Trim chart included. Highly efficient mylar protected magnetic mount attaches conveniently to magnetic compatible surfaces. No drilling! Supplied ready for operation with 10 ft. of mini-coax with BNC connector



Collinear

Series Fed Mobile Antennas

SF-2 144 MHz 3.4 dB . . . \$17.99

SF-220 220 MHz 3.4 dB . . . \$17.99

- Power rating: 100 watts
- 3/8

- x 24 thread
- 5/8 wave

RX-2 144 MHz 3.4 dB . . \$28.99

RX-220 220 MHz 3.4 dB . . \$28.99

RX-440 440 MHz 5.0 dB . . \$28.99

- Coil same as above
- 3 oz magnet
- 15 ft RG-58/U coax
- PL-259 connector



Collinear High Gain

Mobile Antenna

CG-144 5.2 dB 6 MHz BW . . . \$36.99

CG-220 5.2 dB 4 MHz BW . . . \$36.99

- Power rating: 200 watts
- 3/8

- x24 thread
- 5/8 over ¼ wave
- Collinear design

CGT-144 5.2 dB 6 MHz BW . . \$59.99

CGT-220 5.2 dB 4 MHz BW . . \$59.99

- Coil same as above
- Swivel ball for vertical positioning
- Quick disconnect for easy removal
- Trunk mount base



MKR-2 Radial Kit . . . \$23.99

Used to convert RX, SF & CG series coils to fixed station operation. Mount can accept any 3/8x24 threaded



VHF and UHF Mobile Antennas

MX Series NMO Magnetic Mount Antenna

MX-2 144 MHz 3.4 dB . . \$37.99

MX-220 220 MHz 3.4 dB . . \$37.99

MX-440 440 MHz 5.0 dB . . \$49.99

- Power rating: 200 watts
- Chrome top
- NMO style coil
- 10 oz magnet
- 17 ft RG58/U coax & PL-259 connector

MX-2B 144 MHz 3.4 dB . . \$42.99

MX-440B 440 MHz 5.0 dB . . \$49.99

- Same as above but all black coil



BBG Series NMO Swivel Ball & Spring Antenna

BBG-144 3.4 dB . . \$49.99

BBG-440-5 5.0 dB . . \$49.99

- Power rating: 200 watts
- NMO style coil
- Chrome top, swivel ball and spring

BBGT-144 3.4 dB . . \$56.99

BBGT-440-5 5.0 dB . . \$54.99

- Same coil as above
- Includes Trunk mount
- 17 ft RG58/U coax & PL-259 connector



Dual Band 2 meter/ 70cm Mobile Antennas

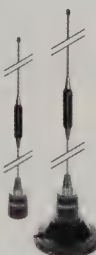
Hustler's new Dual Band antennas are designed to perform even in the toughest environments. Base coils are ultrasonically welded to ensure mechanical integrity and durability.

LMC-270 . . . \$34.99

- 2.4 dB/4.0 dB gain
- Power rating: 100 watts
- NMO style coil
- Coil and whip only

MX-270 . . . \$63.99

- 2.4 dB/4.0 dB gain
- Power rating: 100 watts
- NMO style magnetic mount
- 17 ft RG58/U coax & PL-259 connector



LM Series NMO Coils

LMG, LMC AND LMB Antennas are coil & whip only and require an NMO mount.

LMG-144 3.4 dB gain . . \$27.99

LMG-440-5 5.0 dB gain . . \$29.99

- Power rating: 200 watts
- NMO style coil
- Chrome top and bottom
- Contact-silver plated push pin

LMC-144 3.4 dB gain . . \$25.99

LMC-440-5 5.0 dB gain . . \$25.99

- Power rating: 200 watts
- NMO style coil
- Black coil with chrome top

LMB-144 3.4 dB gain . . \$23.99

LMB-440-5 5.0 dB gain . . \$25.99

- Power rating: 200 watts
- NMO style coil
- Black coil

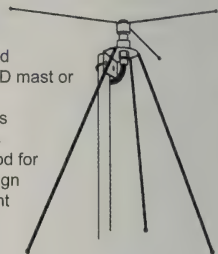


Scanner Base Station Antenna

Hear more at a greater distance with Hustler's external omnidirectional scanner antennas.

DCX . . . \$25.99

- 40 - 950 MHz
- Vertically polarized
- Mounts to 1 ½" OD mast or flat surface
- 55" cone elements
- 20" disc elements
- Solid aluminum rod for high strength design
- Hardware & mount included



DCLB . . . \$37.99

- Same as DCX
- 50 ft RG58/U coax with PL-259 on one end and BNC on the other end

Mobile Scanner Antenna

Hear all of the action in your car. Covers 30-50, 148-174, 430-450, 800-950 MHz

MRMB . . . \$19.99

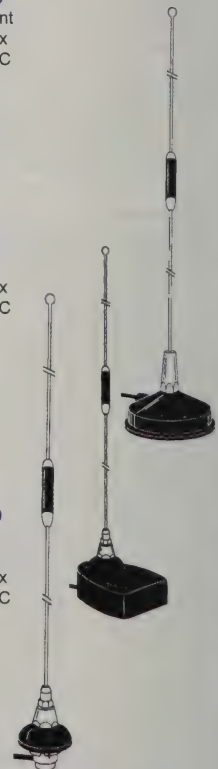
- 3 oz Magnet mount
- 12 ft RG58/U coax
- Available with BNC connector

MOTB . . . \$21.99

- Trunk mount
- 15 ft RG58/U coax
- Available with BNC connector

MORB . . . \$19.99

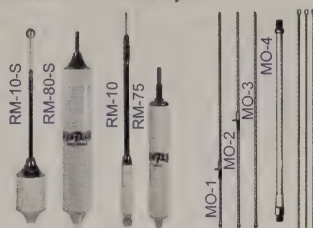
- ¾" Roof or deck mount
- 12 ft RG58/U coax
- Available with BNC connector



Amateur HF Mobile 10,12,15,17,20,30,40,60,75 and 80 Meter

If you are serious about HF mobile operation the **Hustler** HF Mobile System is the obvious choice. **Hustler** manufactures and sells more HF mobile antennas world wide than anyone. No other manufacturer offers the convenience, the flexibility or the pure performance that **Hustler** does. Our HF Mobile System offers a wide variety of components which enable you to customize your installation to fit your present and future needs. A choice of four different support masts provides an installation solution for every vehicle. A selection of interchangeable resonators in high and moderate power levels and varying bandwidths are available. A full complement of accessories such as springs, a multiband adapter and a quick disconnect device complete the system. Experience the satisfaction that comes with owning the best in the world — the **Hustler** HF Mobile System.

	Model	Band	Power SSB	BW @ 2:1 SWR	Weight lbs	Price
RM-10	Standard	10 m	400 W	150-250 KHz	0.41	\$17.99
RM-11	Standard	11 m	400 W	150-250 KHz	0.41	\$17.99
RM-12	Standard	12 m	400 W	90-120 KHz	0.41	\$17.99
RM-15	Standard	15 m	400 W	100-150 KHz	0.42	\$17.99
RM-17	Standard	17 m	400 W	120-150 KHz	0.44	\$25.99
RM-20	Standard	20 m	400 W	80-100 KHz	0.46	\$25.99
RM-30	Standard	30 m	400 W	50-60 KHz	0.84	\$28.99
RM-40	Standard	40 m	400 W	40-50 KHz	0.84	\$28.99
RM-60	Standard	60 m	400 W	40-50 KHz	0.84	\$30.99
RM-75	Standard	75 m	400 W	25-30 KHz	1.05	\$30.99
RM-80	Standard	80 m	400 W	25-30 KHz	1.05	\$30.99
RM-10S	Super	10 m	1 kW	250-400 KHz	1.00	\$27.99
RM-11S	Super	11 m	1 kW	250-400 KHz	1.00	\$27.99
RM-15S	Super	15 m	1 kW	150-200 KHz	1.20	\$28.99
RM-20S	Super	20 m	1 kW	100-150 KHz	1.25	\$32.99
RM-40S	Super	40 m	1 kW	50-80 KHz	1.80	\$41.99
RM-75S	Super	75 m	1 kW	50-60 KHz	2.10	\$57.99
RM-80S	Super	80 m	1 kW	50-60 KHz	2.10	\$57.99



Mobile HF Antennas Hustler Masts

MO-1 . . . \$36.99

Mobile mast 54" length, for bumper, fender or hitch mounting. Folds over at 15" above base. Made of highest quality heat treated Stainless steel and aluminum parts. 3/8" x 24 threaded

MO-2 . . . \$36.99

Mobile mast, 54" length, for bumper, fender or hitch mounting. Folds over at 27" above base. 3/8" X 24 threaded

MO-3 . . . \$27.99

Mobile mast, 54" length, for bumper, fender or hitch mounting. solid aluminum with white vinyl coating. Does not fold over. 3/8" X 24 threaded

MO-4 . . . \$22.99

Mobile mast 22" length, trunk or deck mounting. Three retuning tip rods included. 3/8" X 24 threaded

Professional Chrome Series

C-32 . . . \$18.99

Chrome plated 1 1/2" ball mount. Furnished complete with rubber pad, steel backup plate, all mounting hardware and hex key.



C-30 . . . \$14.99

Chrome plated 4" spring. Copper braided center conductor to prevent detuning. Accepts 3/8" x 24 antennas



C-29 . . . \$21.99

Stainless steel 4" spring. Copper braided center conductor to prevent detuning. Accepts 3/8" x 24 antennas



Resonator Spring

RSS-2 . . . \$13.99

Finest quality stainless steel spring for use between resonator and Hustler antenna mast. This 3" spring absorbs shock when the antenna strikes overhanging obstructions. Supplied ready for easy installation with 3/8" x 24 threads, female on one end, and male on the other. Copper braided center conductor to prevent detuning.



Magnet Mount . . . \$22.99

MBM "Super" Magnet

- 95 lbs. Pull strength
- Powerful 5 inch diameter magnet
- 8 pole magnet
- 16 feet RG 58/U coax with PL-259 connector.
- 3/8" x 24 female threads
- Recommended for antennas up to 48".



Quick Disconnect

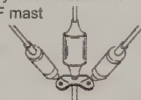
QD-2 . . . \$24.99

100% Stainless Steel. Remove antenna from mount in seconds with push and twist release. Every part including the compression spring is manufactured from the best available 100% stainless steel. Special design of enclosed compression and lock assembly assures freedom against ice and dirt jam up. Accommodates small, medium and large mobile antennas. Equipped with 3/8" x 24 threads, female on one end and male on the other.



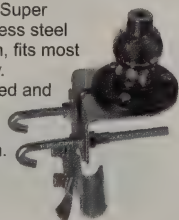
VP-1 . . . \$7.99

Automatic bandswitching using any three Hustler HF resonators. Adapts any Hustler HF mast to tri-band operation. No additional tuning necessary.



Bumper Mount BM-1 . . . \$25.99

Design is rugged for supporting Hustler antennas with the Standard or Super resonators. Heavy stainless steel strap, stronger than chain, fits most bumpers inconspicuously. Assembly is easily installed and held rigid by "J" bolts at the top and a bumper strap clamp at the bottom.



Professional Stainless Steel Series

SSM-1 . . . \$52.99

Heavy-duty mount with 4" stainless steel spring with copper braided center conductor to prevent detuning. 180 degree adjustable 2" diameter stainless steel ball. Accepts 3/8" x 24 antennas

SSM-2 . . . \$32.99

Heavy-duty 2" diameter stainless steel ball mount. 180 degree adjustable. Accepts 3/8" x 24 antennas.

SSM-3 . . . \$29.99

Heavy-duty stainless steel 4" spring with 3/8" x 24 coupling stud. Copper braided center conductor to prevent detuning.



HLM . . . \$25.99

Trunk lip mount designed for hatch and slanted back vehicles. 180 degree 1" diameter ball, which accepts 3/8 x 24 antennas. RG58/U coax with PL-259 connector.



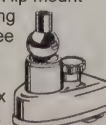
TLM . . . \$25.99

Trunk lip mount, which accepts 3/8 x 24 antennas. RG58/U coax with PL-259 connector.



HOT . . . \$26.99

Trunk lip mount with easy off/on by using thumb knob. 180 degree 1" diameter ball, which accepts 3/8 x 24 antennas. RG58/Ucoax with PL-259 connector.



RVM . . . \$23.99

Recreational vehicle mount with heavy duty bracket. Easy antenna removal or lay down with thumb knob. 1" ball that accepts 3/8 x 24 antennas. RG58/U coax with PL-259 connector.



Price Guide
Used / Demo
Ham Radios
Ham Radio Accessories
Antenna Accessories
Publications
Other Radios
Wireless & GPS
Audio / Video & Tools
AES Information

Pro-Am

ANTENNAS & ACCESSORIES

160-6 Meters Mobile

PHF Series Antennas

Single band whips consisting of a black fiberglass lower section with integrated coil and an adjustable and removable stainless steel whip, except for the PHF-160. These time-proven HF antennas are especially designed for maximum efficiency, low VSWR and broad bandwidth. They are power rated for 250 Watts P.E.P. and built to withstand considerable use. Standard 3/8" x 24 thread base. Assembled length on all models is 96 in. (the PHF-6 is 58 in.).

The model **DAK-AD** Dual Adapter Mount (\$13.99) accepts two antennas to make up a single band vertical or horizontal dipole which is perfect for limited space or portable operation..

Model	Band	Bandwidth	Price
PHF-160	160M	12 kHz	\$89.99
PHF-75	75M	36 kHz	\$29.99
PHF-40	40M	60 kHz	\$23.99
PHF-30	30M	100 kHz	\$23.99
PHF-20	20M	150 kHz	\$23.99
PHF-17	17M	175 kHz	\$23.99
PHF-15	15M	200 kHz	\$23.99
PHF-12	12M	300 kHz	\$23.99
PHF-10	10M	500 kHz	\$23.99
PHF-6	6M	1000 kHz	\$23.99

Thru Glass 2 Meter

GM-144 \$39.99
Mounts on windshield and operates thru-the-glass to a tuning unit mounted on the inside. Features a 27-1/2 in. copper plated whip with black finish, 14 ft. of RG-58 coax and PL-259 connector. Gain is 2.5 dB over a 1/4 wave. VSWR is 1.5:1 through the band. Rated for 50W. Tunable.

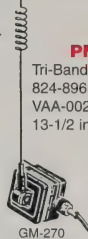
Some auto have "passivated glass" which does not permit thru-glass antennas to work. Check your manual or with your dealer.



GM-144

Thru Glass 2M/70CM

GM-270 \$59.99
Dual Band 2M/70cm thru-the glass antenna featuring a 26-1/2 in. copper plated whip with black finish, 14 ft. of RG-58 coax and PL-259 connector. Gain is 2.6 dB over a 1/4 wave at 2m and 4.4 dB over 1/4 wave at 70 cm. VSWR is <2:1 through the bands. Rated for 50W. Tunable.



GM-270

TGS \$34.99

Thru-the-glass Scanner Antenna for 112-1200 MHz receive only. Looks like GM-270, 22 in. tall, complete with cable connectors and mounting hardware.

Mounts

105ADT \$6.99

Mount assembly. Nickel plated brass SO-239 and extra HD hex. For Plug to plug connections.

105HDT \$3.99

Mount assembly. Bolt mounts through a 1/2 in. hole. Extra HD-duty nickel plated brass hex. For plug to lug.

103S \$24.99

Quick disconnects for quick antenna removal. One 3/8" x 24 base and five spring loaded twist-lock connectors.

120 \$9.99

Radio Hump Mount. Saw-tooth design grips without damage to car. Adjustable, steel, baked black finish.



101ADN



100ADT



100ADN \$10.99

Extra heavy-duty aluminum double groove Mirror Mount with 3/8" x 24 mount and SO-239 connection.



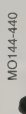
SS-100MOT \$23.99

Stainless steel 3-way Mirror Mount with a Motorola-style mount. Includes 10 ft. of RG-58 cable with PL-259.



DAK-AD \$13.99

Dipole Adapter Mount with one Lug and one SO-239. Accepts two PHF or other 3/8" x 24 antennas for vertical or horizontal dipole.



MO144-440

100ADT \$9.99

Extra heavy duty aluminum 3-way mirror mount. 3/8" x 24 mount and SO-239 connection

101ADN \$10.99

HD alum. double groove horizontal mirror mount. 3/8" x 24, SO-239

Chrome shown but only Black available



PAMB \$24.99

A black 3-3/4 in. diameter low profile magnet Motorola mount pre-wired with 12 ft. of RG-58 cable to a PL-259 connector.

301 \$16.99

4 in. dia. with 3/8" x 24 mount.

401 \$19.99

5 in. dia. with 3/8" x 24 mount.



MM-3401 \$59.99

Heavy Duty magnet mount for NMO based antennas with adapter for 3/8" x 24 thread. Features three 5 in. dia. magnets on a heavy duty aluminum frame protected by an ABS plastic cover. Includes 17 ft. of RG-58 cable with PL-259 connector. Dim: 9-1/2" x 9-1/2" x 2". Wt: 8 lbs.



PAN-38 \$14.99

3/8" x 24 to NMO mount adapter

Dual Band 2M & 70CM +

MO144-440 \$21.99

A dual band antenna to over it all! 19" Covers 2M/70cm plus works great for all band scanners 25 MHz-1.3 GHz. Stainless steel whip. Mount with 1-1/8" threads match 3/4" hole pro-am and Motorola TAD/TAE mounts. SWR less than 2:1. Gain: unity on 2m and 2.1dB over a 1/4 wave on 70 cm.

Utility

PAQA \$10.99

A unity gain stainless steel UHF/VHF whip that covers 136 to 866 MHz with cutting required. Nickel/chrome plated brass base with 1-1/8" threads to match Pro-Am and 3/4" hole Motorola TAD/TAE mounts. includes cutting chart.



PAT-2B \$19.99

Black low profile Motorola-style trunk-lip mount with 17 ft. of RG-58 cable with PL-259 connector.

AST-GPK \$29.99

Ground mount and radial kit for AST-6BT



AST-6BT



PAQA



AST-GPK

2 Meters

PHB-144 \$29.99

5/8 wave, 3dB gain over 1/4 wave, covers 144-174 MHz. Tuned, low loss coil with 1-1/8" threads to match Pro-Am and 3/4 in. hole Motorola TAD/TAE mounts. Rated 100W. whip length 49 in.

CX-144 \$19.99

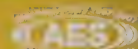
5/8 wave, 3 dB gain over 1/4 wave. Heavy duty matching coil with standard 3/8" x 24 chrome-plated base. Rated at 100W, length 49 in.



CX-144



PHB-144



Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI

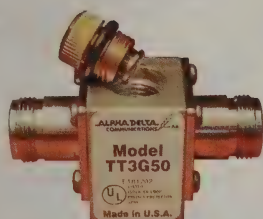
Browse Our Store On-Line at www.aesham.com

Effective Atmospheric Surge Voltage Protection

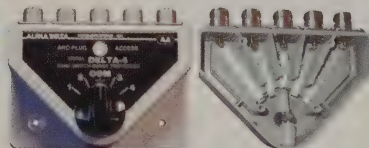
Dangerous static charges measuring 1000s of volts can be developed from local thunderstorms, high wind driven snow or sand; so potent they can actually puncture the dielectric of coaxial cable. Solid-state transceivers and other equipment in your ham shack are very vulnerable to these high-voltage charges so you should take every precaution to protect your equipment and shack from possible serious damage ... and ALPHA DELTA has the answer!

Special Arc-Plugs are used in ALPHA DELTA's Coax Switches, Surge Protectors and DELTA-C Center Insulator which "bleed off" slow rising static electricity charges from the feed line, routing them harmlessly to ground. This is far more effective than DC grounded baluns or chokes. But, even as effective as these devices are, you still need to do a good job of proper grounding as outlined in the ARRL Handbook, etc.

Lightning Surge/EMI Protectors



Lightning Surge Protected Coaxial Switches



- High quality custom design featuring a rugged cast aluminum housing and durable powder coat finish.
- Uses constant impedance micro-strip cavities that provide very low-loss and high isolation through the UHF frequencies
- Precision machined switch shaft and rotation mechanism with solid positive detent that snaps positively into each position.
- An easily replaceable Alpha Delta Arc-Plug™ Cartridge provides continuous surge protection.
- Automatically grounds unused antennas to reduce antenna interaction, noise and the effects of lightning and static charges.
- Rated for Full Legal power.

Models:

- DELTA-2B** – 2-position, with SO-239 connectors and rated for operation up to 500 MHz **\$59.99**
- DELTA-2B/N** – 2-position, with N-type connectors, rated for operation up to 1.3 GHz **\$75.99**
- DELTA-4B** – 4-position, with SO-239 connectors, rated for operation up to 500 MHz **\$89.99**
- DELTA-4B/N** – 4-position, with N-type connectors, rated for operation up to 1.3 GHz **\$99.99**

Antenna Insulator Kit with Surge Protection



- DELTA-C** – Includes a center insulator and two end insulators. The best for dipoles and wire antennas using either coaxial cable or balanced feed line. Highest quality and rugged – made from a virtually unbreakable UV/RF resistant material. Stainless steel hardware is used in the center insulator, and all connections are hard soldered. Handles full legal power. An easily replaceable built-in Arc-Plug® in the center insulator provides protection from the effects of lightning and static charges **\$29.99**
- SEP** – Replacement Arc-Plug® cartridge . **\$15.99**
- DELTA-CIN** – End insulator only each **\$1.99**

Limited Space Slopers



- Proven 1/4-wave sloper DX Performance.
- Alpha Delta "ISO-RES" inductors replace lossy traps and capacitors, handles Full Legal Power.
- Factory assembled using insulated #12 copper wire, stainless hardware and 50 ft. of nylon rope.
- Direct 50 ohm coaxial feed, no tuner required. Go to Alpha Delta's website for sloper installation.

DX-A – A top performing 1/4-wave Twin Sloper 160, 80 and 40 meter DX antenna. Combines the DX firepower of the 1/4-wave sloper with the wide bandwidth of a 1/2-wave dipole. Installs like an inverted V. Legs are 67 ft. and 55 ft. long **\$100.99**

DX-B – A single wire high performance 1/4-wave DX Sloper with for 160, 80, 40 and 30 meters. Installs like 1/2 of an inverted V. The limited space installation requires only 60 ft. of space for amazing DX performance with the feed-end at 35 ft. and the low end only 8 ft. above the ground **\$110.99**

Shortened Multibanders



- Alpha Delta "ISO-RES" inductors replace lossy traps and capacitors, rated for Full Power.
- Direct 50 ohm feed, no antenna tuner is required except for extended frequency coverage.
- Fully assembled with insulated #12 copper wire, stainless hardware and 50 ft. of nylon support rope.
- Includes the DELTA-C static protected center insulator and DELTA-CIN end insulators.
- Installs horizontally as an inverted V.

DX-CC – 80-40-20-15-10M, 82 ft. long. **\$160.99**

DX-DD – 80/40M, 82 ft. long **\$130.99**

DX-EE – 40-20-15-10M plus 30-17-12M using a wide range antenna tuner, 40 ft. long **\$140.99**

DX-LB – 160-80-40M, 100 ft. long. Typical bandwidth for 2:1 VSWR: 160M (20 kHz), 80M (40 kHz), 40M (300 kHz). Capable of full band coverage when using a wide range antenna tuner, 100 ft. **\$160.99**

DX-LB PLUS – Same as DX-LB above, but adds 20-10M with parallel wires, 100 ft **\$190.99**

Full-Size Monoband Dipoles



- 50 ohm coax feed, no traps, handles full power
- Installs horizontally or as an Inverted V
- Rugged, full-size performance
- Fully assembled with #12 insulated copper wire, DELTA-C static protected center insulator, DELTA-CIN end insulators and includes 50 ft. of nylon support rope.
- DX-80** – 75/80 meters, 134 ft. long **\$70.99**
- DX-40** – 40 meters, 67 ft. long **\$70.99**
- DX-20** – 20 meters, 34 ft. long **\$70.99**

UL LISTED – Certified protection for your equipment from the effects of lightning and static charges. Much more effective than low-cost air-gap types.

The heart of this protector is an easily replaceable Arc-Plug™ – two electrodes hermetically sealed in a gas filled ceramic cylinder. Acting like a voltage dependent switch, the Arc-Plug™ can repeatedly carry large currents to ground for brief periods.

If you need to run control voltages through the coax, the impedance compensated thru-line cavity design allows it to pass thru instead of having to "wire around" as with some other DC-blocked designs.

All models are completely weather proofed by the use of O-ring seals and all hardware is stainless steel.

Wide Frequency Range: DC thru 3 GHz, much wider than narrow band DC blocked or stub designs.

Low Insertion Loss: 0.1dB @ 1 GHz, 0.2dB @ 2 GHz, and only 0.5dB @ 3GHz, typical.

Models:

ATT3G50
0-3000 MHz; 200W; N Female **\$59.99**

ATT3G50-HP
0-3000 MHz; 2000W; N Female **\$59.99**

ATT3G50U
0-500 MHz; 200W; UHF (SO-239) **\$49.99**

ATT3G50U-HP
0-500 MHz; 2000W; UHF (SO-239) **\$49.99**

Replacement Arc-Plug Cartridges

ATT/3G50 for ATT3G50 or ATT3G50U .. **\$14.99**

ATT-HP/3G50HP for ATT3G50-HP and ATT3G50U-HP **\$14.99**

Important Notice:

The Defense Logistics Agency (DLA) has assigned a National Stock Number (NSN) to the TT3G50 Coax Surge Protector and 3G50 ARC-PLUG™ Cartridge for use in all Military and NATO applications, Worldwide.

www.alphadeltacom.com

Verticals

hy-gain

Tri-Band Beams

AV-18HT Hy-Tower 10/15/20/40/80M Vertical - The premier, best performing vertical in the world. Constructed with rugged hot-dipped galvanized steel tower sections. Features automatic band selection using a unique stub decoupling system which effectively isolates various sections of the antenna so that an electrical 1/4 wavelength (or odd multiple) exists on all bands. Includes all stainless steel hardware & tilt-over base. Use a good ground or 1/4-wavelength radials for best performance. **Drop Ship \$949.99**

- Specifications:**
- Bands: 10, 15, 20, 40, and 80 Meters
 - Gain: Unity 20, 40, 80; 2 dB on 10/15
 - 80M Bandwidth: 250 kHz @ 2:1 VSWR
 - Power: 1500W PEP
 - Height: 53 feet
 - Weight: 114 pounds
 - Wind Survival: 75 MPH

AV-18HT-JR Hy-Tower Jr. - Automatic band selection with a unique stub decoupling system which isolates various sections so that a full-size electrical 1/4 wavelength exists on 40, 20, 15 and 10 meters with cage loading on 80 meters. Requires a good ground system or 1/4-wavelength radials for best performance. It has almost no losses - your ground system determines efficiency. It is automatic bandswitching, fed with 50 ohm coax and has low SWR over an exceptional wide bandwidth with a VSWR <1.2:1 at resonance. High-strength, heavy welded 2 in. aluminum main radiator swaged at the top. Mounts on 1-1/4 in. pipe. **\$349.99**

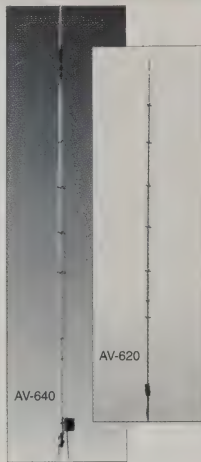
- Specifications:**
- Bands: 10, 15, 20, 40, and 80 Meters
 - Power: 1500W PEP
 - Height: 39 ft.
 - Weight: 25 pounds
 - Survival: Self-supporting up to 40 mph
 - Mast Size: 1-1/4 in.

AV-14AVQ 10/15/20/40M Vertical - A self supporting automatic bandswitching vertical that delivers outstanding performance and a very low angle radiation pattern. All stainless steel hardware. **\$169.99**

- Specifications:**
- Bands: 10, 15, 20, and 40 Meters
 - Power: 1500W PEP
 - Height: 18 ft.
 - Weight: 9 pounds
 - Wind Survival: 80 MPH
 - Mount: 1.5 in - 1.625 in. pipe

AV-18AVQ II 10/15/20/40/80M Vertical Similar to AV-14AVQ except includes 80M operation. Height: 18 ft., 12 lbs. **\$229.99**

DX-88 10/12/15/17/20/30/40/80M Vertical All bands easily tuned with adjustable capacitors. Height: 25 ft., 18 lbs. **\$369.99**



AV-640 6 to 40 Meter Vertical - Automatic bandswitching with a single coax feed. Uses 1/4-wave stubs on 6, 10, 12, and 17 meters and efficient end loading coil and capacity hats on 15, 20, 30, 40 meters. Instead of typical lossy can traps, the AV-640 resonators are placed in parallel not in series and end loading of the lower HF bands allows efficient operation with a manageable antenna height. An effective counter poise system replaces conventional ground radials. Mounts easily on decks, roofs, and patios. **\$399.99**

- Specifications:**
- Bands: 6, 10, 15, 17, 20, 30, and 40 Meters
 - VSWR at resonance (typical): 1.5:1
 - Power Handling: 1500W, key down 2 minutes
 - Vertical Radiation Angle: 17 degrees
 - Horizontal Radiation Angle: 360 degrees
 - Height: 25.5 ft.
 - Weight: 10.5 pounds
 - Wind surface area: 2.5 square feet
 - Wind Survival: 80 mph

AV-620 6 to 20 Meter Vertical - No traps, no coils, and uses an effective counterpoise that replaces traditional radials. End fed design using a broadband matching unit with automatic bandswitching and single coax cable feed. Wide VSWR bandwidth, bands are individually tunable. **\$299.99**

- Specifications:**
- Bands: 6, 10, 15, 17, and 20 Meters
 - VSWR at resonance (typical): 1.5A
 - Power: 1500W, 2 minutes key down
 - Vertical Radiation Angle: 17°
 - Height: 22.5 ft.
 - Weight: 10.5 pounds
 - Wind surface area: 2.4 sq. ft.
 - Wind Survival: 80 MPH

Multi-Band
PATRIOT
Vertical
Antennas

- No Radials
- No Traps
- No Ground
- No Tuning
- Handles 1500W



TH-7DX 7-Element Tri-Band Beam, 10/15/20 Meters - A dual driven 7-element system maintains a VSWR of <2:1 across all bands, including 10 Meters. No compromise on gain performance. A unique combination of trapped and mono band parasitic elements produces a huge front-to-back ratio. Includes a rugged diecast aluminum boom-to-mast clamp, heavy gauge element-to-boom brackets and a BN-86 ferrite balun. **\$799.99**

Specifications:

- Gain: 8.77dBi • F/B: 21dB • Power: 1500W PEP
- Boom Length: 24 ft. • Longest Element: 31 ft.
- Turning Radius: 20 ft. • Mast Diameter: 1.5-2.5 in.
- Surface Area: 9.4 sq. ft. • Wind Load @ 80 mph: 240 lbs • Wind Survival: 100 mph • Weight: 75 lbs

TH-5MK2 5-Element Tri-Band Beam, 10/15/20 Meters - Broadbanded with outstanding gain. It features five elements on a 19 ft. boom with four active elements on 10, 15 and 20 meters. Separate dielectric H-Q traps on each band provides a maximum front-back ratio. Beta Match tuning, DC grounded. Stainless steel hardware. Includes BN-86 balun. **\$699.99**

Specifications:

- Gain: 8.3dBi • F/B Ratio: 20dB • Power: 1500W PEP
- Boom Length: 19 ft. • Longest Element: 31.5 ft.
- Turning Radius: 18.42 ft. • Mast Dia: 1.5 - 2.5 in.
- Surface Area: 7.4 sq. ft. • Wind Load @ 80 mph: 190 lbs • Wind Survival: 100 mph • Weight: 57 lbs.

TH-3MK4 3-Element Tri-Band Beam, 10/15/20 Meters - The most gain for the money in a full-power, full-size durable tri-bander. Impressive gain and front-to-back ratio. Fits on an average lot and the 4-piece boom makes it ideal for DXpeditions. DC grounded, full power Hy-Q traps and rugged boom to mast bracket. Mounts on a standard 2 in. mast. BN-86 balun recommended. **\$469.99**

Specifications:

- Gain: 8.0dBi • F/B Ratio: 25dB • Power: 1500W PEP
- Boom: 14 ft. • Longest Element: 27.42 ft. • Turning Radius: 15.33 ft. • Mast Diameter: 1.9-2.5 in.
- Wind Area: 4.6 sq. ft. • Wind Load @ 80 mph: 118 lb • Wind Survival: 95 mph • Weight: 35 lbs.

TH-3JRS 3 Element Tri-Band Beam, 10/15/20 Meters - The most popular, fits on most lots. Same top performance as the full power TH-3MK4 in a compact 600W PEP design. **\$359.99**

Specifications:

- Gain: 8.0dBi • F/B Ratio: 25dB • Power: 600W PEP
- Boom Length: 14.75 ft. • Longest Element: 27.25 ft. • Turning Radius: 14.3 ft. • Mast Dia: 1.25-2.0 in. • Wind Area: 3.35 sq. ft. • Wind Load @ 80 mph: 83 lbs • Wind Survival: 80 mph • Weight: 21 lbs.

BN-86 Broadband 50Ω Ferrite Balun - Usable from 3 to 30 MHz. Recommended for all HF yagi antennas. It provides improved front-to-back ratio. Comes with clamp to bolt to boom. Protected SO-239 connector. **\$79.99**



Single Band HF Beams

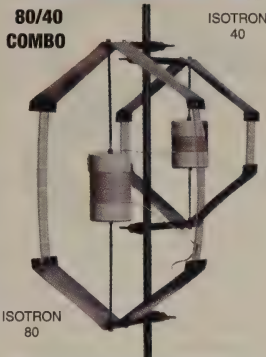
• Stronger, lighter, less surface area & years of High Performance
• Exclusive 50 ohm BetaMatch™ for Direct Coax feed with great match and DC grounding • A BN-86 50Ω Ferrite Balun is recommended for improved front-to-back ratio.

- LJ-103BA** 10 Meters, 3 Elements, 8 ft. Boom, 7.9dBi Gain..... **\$159.99**
- LJ-105CA** 10 Meters, 5 Elements, 24 ft. boom, 10.8dBi Gain... **\$289.99**
- LJ-153BA** 15/12 Meters, 3 Elements, 12 ft. boom, 7.9dBi Gain. **\$209.99**
- LJ-204BA** 20/17 Meters, 4 Elements, 26 ft. Boom, 8.2dBi Gain. **\$539.99**



AP-10B Window/Portable 300W PEP Antenna - A quick and dependable antenna system when larger antennas cannot be used. Covers 2 thru 40 meters clamped to a window ledge, a railing or table. Tunes to low VSWR by tapping a fly lead up or down the base coil and adjusting the position of the supplied counterpoise wire. The whip extends to 51 in. during operation, collapsing to less than 24 in. to easily fit in a suitcase or briefcase for travel. Use one to get on the air regardless of covenant restrictions. Supplied with mounting bracket and clamp, counterpoise wire and 10 ft. of coaxial cable..... **\$89.99**

ISOTRON
BILAL COMPANY
www.isotronantennas.com

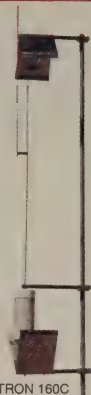


ISOTRON 80

ISOTRON 40

Simple & Effective...
ANTENNAS FOR VERY LIMITED SPACE

- Easy, quick, and simple installation.
- Excellent portable operation for emergencies, RV's, field day, motels, Maritime operation.
- Not dependent on a grounding system.
- Tunes and performs without radials.
- Unobtrusive appearance, making a very discreet looking installation.
- Excellent Low Noise reception and transmitting quality performance is not compromised by its compact design.
- Multi-band operation on one feedline with back to back mounting. Any other combination of three bands may be substituted on special order.
- Durable construction, can be used in extreme weather conditions, will not bend in high winds. No motors or mechanical tuning devices to fail.



ISOTRON 160C

Common Specifications: 1000W PEP power rating (300W, CW, AM, FM, RTTY) • 50-75Ω coax feed • Omni-directional radiation pattern • Bandwidth shown is within 2:1 SWR but may vary with environment • Stainless steel fasteners • Zinc plated u-bolts • Tempered aluminum components • Cast acrylic and PVC insulators • THHN #14 solid copper coils • 85 mph wind rating

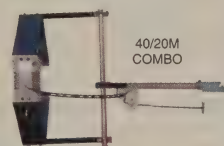
Model	160C	80	40	20	15	10	6
Band	160 meters	80 meters	40 meters	20 meters	15 meters	10 meters	6 meters
Freq. (MHz)	1.8-2.0	3.5-4.0	7.0-7.3	14-14.35	21-21.450	28-30	50-54
hwxwd (in.)	114x16x15	32x16x15	22x16x15	21x8x4	21x1½x4	16x1½x4	16x2x4
BW	100 kHz	110 kHz	250 kHz	350 kHz	450 kHz	1 MHz	1.25 MHz
Windload (sq. ft.)	1.697	1.37	1.0	0.23	0.23	0.16	0.13
Weight	7 lbs.	6 lbs.	4 lbs	2 lbs	2.0 lbs	1.5 lbs	1.5 lbs.
PRICE	\$173.99	\$109.99	\$88.99	\$78.99	\$78.99	\$78.99	\$78.99



ISOTRON 20



20/15/10 COMBO



40/20M COMBO

80/40 COMBO - (Top/left) Same as individual model specs above. Operate 80/40M using one feed line. Dim: 32"h x 16"w x 30"d; 10 lbs..... **\$188.99**

20/15/10 COMBO - Same as individual model specifications. Operate 20/15/10M using one feed line. Dim: 4"h x 32"w x 30"d; 10 lbs..... **\$198.99**

40/20 COMBO - Offered because the 40 and 20 meter bands were found to be extremely useful for the amateur radio support during the 2005 weather disasters. Improved with a new enhanced coil design that makes tuning easier and more tolerant to higher power. Dim: 22"h x 16"w x 32"d; 6 lbs..... **\$167.99**

SPECIAL ORDER! - You can make up your own combination. Substitute 30m for 40m in the 80/40 Combo or 17m for 15m in the 20/15/10 Combo. MARS, CAP and Commercial models available.



Portable 40-10M Antenna



Super High-Q Loop Antennas for Limited Space

1622 Apartment Antenna - Operate 40 thru 10M, 6M and 2M, up to 300W P.E.P. Tuning is accomplished by changing the tap on the highly efficient air-wound coil and adjusting the counterpoise for best SWR. Its universal mount/clamp lets you easily attach it to window frames, balconies and railings. It also works great indoors mounted to a desk, table or bookshelf. The 5.5 ft. radiator collapses to 2.5 ft. for transport or storage. Includes 50 ft. of coaxial cable, RF choke balun, 50 ft. counterpoise wire and safety rope..... **\$99.99**

1910 Telescoping Fiberglass Mast - Great for portable and temporary use - traveling, camping, hotels, hamfests, field day, DX-peditions. Use to construct loops and quads. Pull out each section and twist to lock, strong fiberglass, flexes to resist breaking. Extends to 33 ft. and collapses to 3.8 ft. Bottom section 1.75 in. diameter; 3.3 lbs. **\$79.99**

Telescoping Whips - Available in 12 and 10 ft. lengths. Made of 1/2 in. diameter plated brass with a 3/8 x 24 threaded stud. Use as an antenna by itself for 10/12/15M or use it on top of a screwdriver or other base loaded antenna to greatly improve the efficiency. Use two to make a portable dipole.

1956 12 ft. extended, 22.5 in. collapsed... **\$29.99**

1954 10 ft. extended, 29 in. collapsed..... **\$22.99**

1/2-wave, 6-Band No-radials Vertical
12 ft. tall, Mounts Anywhere, 40-6M

1796 - Only 12 feet high with a tiny 24 inch foot print. Mount anywhere - ground level to tower top - apartments, small lots, trailers. Perfect for vacations, field day, DXpeditions, camping. Efficient end loading, no lossy traps, entire length always radiating. Automatic bandswitching, low angle radiation, omni-directional, handles 1500W PEP..... **\$209.99**

1621 - A complete portable 10 through 40 meter antenna for use in practically any location - apartment, campsite, hotel, even at the beach. Consists of a 54 in. telescoping whip antenna mounted on a sturdy, cabinet which contains an built-in antenna tuner and field strength meter. Handles 200W PEP SSB and includes 50 ft. of RG-58 coax. Just place the unit in any electrically clear location, set the bandswitch, apply power, and tune the capacitor for maximum field strength. The whip is easily removable and collapses to 22 in. for easy portability. Dim: 6'w x 3'h x 6'd, 3 lbs..... **\$99.99**

1786 - The loop is only 36 in. in diameter but operates 10-30 MHz continuously and handles 150W. Mounts vertically for low angle DX or horizontally for local work. Automatic tuning remote control box tunes to the desired band and Fast/Slow tune buttons and built-in two range Cross-Needle SWR/Wattmeter let you quickly tune to an exact frequency. No control cable is needed. All welded construction, no mechanical joints, polished butterfly capacitor prevents arcing. Large 1.050 in. diameter round tubing..... **\$399.99**

1788 Super High-Q Loop Antenna - Same as the MFJ-1786 but covers 40-15 meters..... **\$449.99**

Price Guide
Used / Demo

Ham Radios

Ham Radios
Accessories

Antennas
Accessories

Publications

Tools
Radios

Weather
& GPS

Audio / Video
& Tools

AES
Information

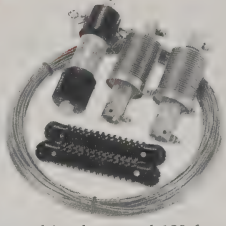


UNADILLA

5-Band Antenna Kit

W2AU/W2VS

Resonant on 40 and 80 meters. On 10, 15 and 20 meters the SWR typically 2:1-4:1, and with some transceivers a transmatch may be needed. Length is 110 ft., rated for 2 KW PEP. Includes a pair of 40M traps, W2AU balun, end insulators and 120 ft. of #14 stranded antenna wire..... **\$85.99**



REYCO Antenna Traps

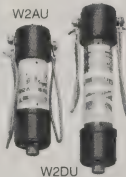
Add these traps to your dipole for multiband operation on two to seven bands. Add the 40M pair (KW-40) and get "perfect dipole" performance on 40 and 80M. Add five pair and work 10, 15, 20, 40, 80 & 160M with low SWR. Selecting traps: List the bands you want to cover, listing the Highest Frequency band first. You will need a pair of traps for each band except the one with the Lowest Frequency.



- KW-10** - 10 Meters..... pair **\$41.99**
- KW-12** - 12 Meters..... pair **41.99**
- KW-15** - 15 Meters..... pair **41.99**
- KW-17** - 17 Meters..... pair **41.99**
- KW-20** - 20 Meters..... pair **41.99**
- KW-30** - 30 Meters..... pair **42.99**
- KW-40** - 40 Meters..... pair **42.99**
- KW-60** - 60 Meters..... pair **46.99**
- KW-80CW** - 80 Meters CW..... pair **48.99**
- KW-80F** - 80 Meters Phone..... pair **48.99**

W2AU Ferrite Baluns

Replaces the antenna center insulator. Smooth unbalanced to balanced transition ensures proper current distribution. DC grounded for lightning protection, center support hook. Usable from 1.8-40 MHz, 2KW PEP rating, SO-239 connector.

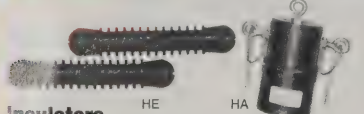


- W2AU 1:1** - 1:1, 1.8-40 MHz ferrite..... **\$24.99**
- W2AU 4:1** - 1:1, 1.8-40 MHz ferrite..... **24.99**
- W2AU BEAM** - 1:1, Beam balun..... **24.99**

W2DU Choke Baluns

High efficiency, transformerless 1:1 baluns. The HF model is the only one available that works on 160 meters! All rated to handle a VSWR up to 5:1 at the legal limit, allowing use with an antenna tune.

- W2DU-HF** - 1:1, 1.8-30 MHz Choke..... **\$26.99**
- W2DU-VHF** - 1:1, 30-250 MHz Choke..... **26.99**
- W2DU BEAM** - 1:1, 40-10m choke..... **26.99**



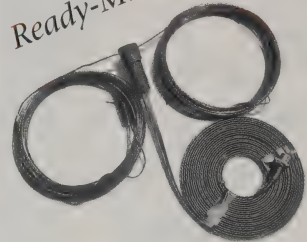
Insulators

HA AN-Insulator™ - A strong center dipole insulator with built-in lightning protection. SO-239 connector, 3.5" long x 1.75" diameter..... **\$9.99**
HE END-Insulator™ - Shatter-proof antenna end insulators. Tough, includes voltage path extenders, positive wire track. Low loss, lightweight and long leakage path. 5.5" long x 1" diameter... pair **\$6.99**

RadioWavz

Ready-Made

HF WIRE ANTENNAS



The **DOUBLE BAZOOKA ANTENNA** - an extreme ly broad banded 1/2-Wave Coaxial Antenna which operates efficiently across an entire ham band with little change in SWR. No balun required. Feeds directly with 50 ohm coax.

- 40M-DBZ** 70 ft. 40M Double Bazooka..... **\$45.99**
- 75M-DBZ** 127 ft. 75M Double Bazooka..... **75.99**
- 160M-DBZ** 265 ft. 160M Double Bazooka **125.99**

COAXIAL JUMPERS

Premium Low Loss Coax with PL-259 Connectors and Strain Relief



RG-213

- J213-U1** 1.5 ft. RG-213 w/PL-259's..... **\$14.99**
- J213-U3** 3 ft. RG-213 w/PL-259's..... **16.99**
- J213-U6** 6 ft. RG-213 w/PL-259's..... **17.99**
- J213-U12** 12 ft. RG-213U w/PL-259's..... **24.99**
- J213-U25** 25 ft. RG-213 w/PL-259's..... **34.99**
- J213-U50** 50 ft. RG-213 w/PL-259's..... **55.99**
- J213-U75** 75 ft. RG-213 w/ PL-259's..... **73.99**
- J213-U1X** 100 ft. RG-213 w/PL-259's..... **94.99**
- J213-U12X** 125 ft. RG-213 w/PL-259's..... **114.99**
- J213-U15X** 150 ft. RG-213 w/PL-259's..... **136.99**

RG-8X

- J8X-U1** 1.5 ft. RG-8X w/PL-259's..... **\$9.99**
- J8X-U3** 3 ft. RG-8X w/PL-259's..... **11.99**
- J8X-U6** 6 ft. RG-8X w/PL-259's..... **14.99**
- J8X-U12** 12 ft. RG-8X w/PL-259's..... **22.99**
- J8X-U25** 25 ft. RG-8X w/PL-259's..... **29.99**
- J8X-U50** 50 ft. RG-8X w/PL-259's..... **37.99**
- J8X-U75** 75 ft. RG-8X w/PL-259's..... **49.99**
- J8X-U1X** 100 ft. RG-8X w/PL-259's..... **63.99**

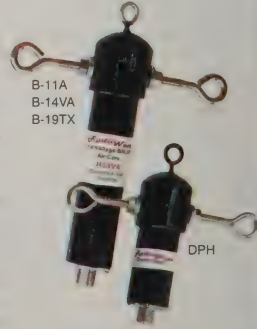
BALUNS

B-11A 1:1 Voltage BALUN - Trifilar wound Air Core type with a 1:1 impedance ratio. Rated for 1500W PEP from 1.8 to 30 MHz. Use for transforming a 50Ω unbalanced load to a 50Ω balanced load. For Dipoles, beams, etc. Body dim: 6.5" long x 1.75" diameter... **\$19.99**

B-14VA 4:1 Voltage BALUN - Air core type with a 4:1 impedance ratio. Rated for 1500W PEP from 1.8 to 30 MHz. Use for matching a 200Ω load to a 50Ω load, or a 300Ω load to a 75Ω load. Body dim: 6.5" long x 1.75" diameter..... **\$19.99**

B-19TX 9:1 Isolation/Current BALUN - Rated for 1500W PEP from 1.8 to 30 MHz. Use for matching a 450Ω load to a 50Ω load, or 675Ω load to a 75Ω load. Typical uses are for Rhombics, Delta loops, and V-beams, folded tilted terminated dipole and end-fed Vee antennas. Body dim: 6.5" long x 1.75" diameter..... **\$29.99**

DPH - Weatherproof antenna support without a balun and with SO-239 connector. Body dim: 4" long x 1.75" dia..... **\$9.99**



**Order Now from
any AES Location!**



We accept I.M.P.A.C.® Government Credit Cards

Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI

Browse Our Store On-Line at www.aesham.com



F Wire Antennas & Accessories

BROADBAND ANTENNAS

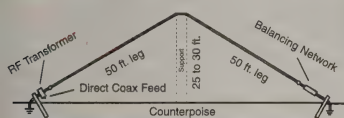
Field proven broadband HF antennas that operate all frequencies continuously from 1.8 to 30 MHz without an antenna tuner, plus 6 meters. The single antenna solution for amateur operation and more. If you are participating in various programs such as MARS, ARES, RACES or CAP these antennas will work all of your frequencies with a VSWR of 2:1 or better without measurements or tuning. It's a low noise design with outstanding receive capability. Provides better performance than any vertical and very reliable.



BROADBAND FOLDED DIPOLES

These antennas operate all HF frequencies continuously within their design range without an antenna tuner, plus 6M with a tuner. Install as flat top, inverted vee, or sloper. Constructed of #14 stranded copperweld wire. Unbalanced 50 ohm input with SO-239 connector. Handles 2KW PEP. Shipped completely assembled.

- BWD-20** - 14-30 MHz, 20 ft. long **\$269.99**
BWD-45 - 7-30 MHz, 45 ft. long **\$269.99**
BWD-65 - 4-30 MHz, 65 ft. long **\$279.99**
BWD-90 - 1.8-30 MHz, 90 ft. long ... **\$279.99**
FDMK Folded Dipole - 3-pole mtg. kit. **\$45.99**



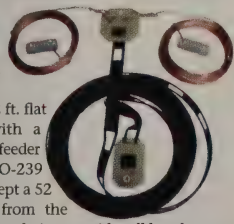
BROADBAND END-FED VEE

AC-1.8-30 - Unique design covers 1.8-30 MHz continuous with less than a 2:1 VSWR without using an antenna tuner + 6M with a tuner. Installs with termination at both ends to grounded stakes (not included), and the center about 25 ft. above the ground. Omnidirectional, high angle radiation at lower frequencies. Increased angle from 5-15 MHz; above 15 MHz, more directional in the line of the antenna wire. In limited space, wire may be shortened without greatly affecting the VSWR, but lowering radiation efficiency. It's extra quiet to capture weak signals. Handles 2KW PEP. Comes fully assembled with #14 stranded copperweld wire, 110 ft. long. Weighs 7 lbs.... **\$279.99**

MFJ

1778 All-Band G5RV Antenna

A center fed, 102 ft. flat top antenna with a 300Ω twin-lead feeder system and SO-239 connector to accept a 52 ohm coax run from the shack. This unique design provides all band coverage from 80-10 meters with a nominal VSWR. For versatility, using an antenna tuner is recommended with most rigs. Easily installs as a flat top, inverted-V or sloper. Works well on 160 meters operating as a Marconi with a proper tuner and good RF ground. Handles 1500W..... **\$39.99**



Off Center-Fed Six Band Antenna

OCF - Covers 75/80, 40, 20, 17, 12 & 10 meters without the use of an antenna tuner. The rugged broadband design features an integral 6:1 balun and flexible, 65 strand 12 ga. PVC coated wire. The balun is permanently sealed from the weather, and is internally crimped and soldered to a silver/Teflon® SO-239 connector, a stainless eyebolt provides for attaching a support rope. Overall length is 135 ft. long (45/90 ft. sections); alternately can be erected in only 68 ft. but with 40, 20 & 10 meter operation only. Rated 300W CW/SSB, fully assembled. Wt: 7 lbs.... **\$175.99**

MEADOW RIDGE PRODUCTS, INC.



COPPERWELD® Antenna Wire

Forge-welding makes the two metals inseparable! Solid bare copper-over-steel wire - the best for antennas. Its very strong, the steel core has very little stretch and long service life. The copper covering provides low RF resistance and solders easily. Available in 12, 14 or 18 gauge.

- | | |
|------------------------------------|----------------|
| AN-122 - 100 ft. #12 | \$39.99 |
| AN-123 - 150 ft. #12 | 49.99 |
| AN-124 - 250 ft. #12 | 79.99 |
| AN-126 - 500 ft. #12 | 139.99 |
| AN-128 - 1000 ft. #12 | 239.99 |
| AN-142 - 100 ft. #14 | 29.99 |
| AN-143 - 150 ft. #14 | 39.99 |
| AN-144 - 250 ft. #14 | 49.99 |
| AN-146 - 500 ft. #14 | 89.99 |
| AN-148 - 1000 ft. #14 | 169.99 |
| AN-181 - 250 ft. #18 | 24.99 |
| AN-182 - 500 ft. #18 | 39.99 |



WA1FFL Ladder-Loc®

LADDER LINE CENTER INSULATOR/SUPPORT

Provides a secure attachment for 450 ohm ladder transmission line to dipoles and other wire antennas. Minimizes feedline flexing at the antenna feedpoint and ensures a long lasting, trouble-free installation. A top attachment point is provided for a support rope. UV resistant **\$12.99**



Van Gorden Engineering

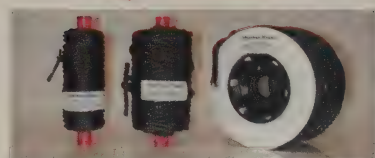
HQ Baluns - 1:1 or 4:1 impedance ratio, 3-40 MHz, rated 1.5KW.
HQ-1:1 or **HQ-4:1** ea. **\$18.99**

ANTENNA CENTE Antenna Center Insulator - Weatherproof, SO-239 and support hook... **\$9.99**

ANTENNA END IN - End insulators - 6 in. long, ribbed... pr. **\$6.99**

DOG BONE Insulator - Strong, 2.5 in. long, ribbed **99¢**

synthetic textiles, Inc.



Black Dacron® Polyester Rope - Constructed of strong double braid Dacron® polyester. It's black for UV protection and has excellent resistance to weather, mildew and abrasion. The rope ties and cuts easily and the ends seal effectively with the short application of a small flame or hot tool.

After a small initial "set" due to tightening of the braid, it has virtually no long term stretch, making it ideal for supporting dipoles, long wires, etc. Also, great for non-resonant guying of masts or towers. When used as an overhead boom support, it eliminates a conductive wire from the RF field which can cause pattern distortion in VHF/UHF antennas.

- | | |
|--|---------------|
| 100' - 100 ft., 260+ lbs. strength, 3/32 in.... | \$9.99 |
| 100' 3/16 - 100 ft., 770+ lbs., 3/16 in. | 18.99 |
| 100' 5/16 - 100 ft., 1790+ lbs., 5/16 in. | 26.99 |
| 350' - 350 ft., 770+ lbs., 3/16 in. | 49.99 |



Van Gorden Engineering

Single Band Dipoles - Rated for full legal power. Use in a flat-top or an inverted-V configuration. Complete with Hi-Q 1:1 balun, #14 stranded copper antenna wire, plastic insulators, and 100 ft. of nylon rope.

- | | |
|--|----------------|
| D-80 - 80 meters, 130 feet long | \$41.99 |
| D-40 - 40 meters, 66 ft. | 38.99 |
| D-20 - 20 meters, 33 ft. | 36.99 |
| D-15 - 15 meters, 22 ft. | 35.99 |
| D-10 - 10 meters, 16 ft. | 34.99 |

Shortened Dipoles - Construction is the same, and includes traps as shown above.

- | | |
|--|----------------|
| SD-80 - 80 meters, 90 ft long | \$46.99 |
| SD-40 - 40 meters, 45 ft. | 44.99 |

Multiband Dipoles

ALL BANDER 135 ft. All Band Dipole - Covers 160-10M when using a balanced line antenna tuner. Trim to fit small lots. Assembled, with #14 copper wire, center and end insulators and 100 ft. of 450Ω balanced line. 2KW rated ... **\$35.99**

SHORTY 70 ft. All Band Dipole - As above, but loading coils shorten the length ... **\$55.99**

G5RV - A dipole configuration that covers 3.5 to 30 MHz without traps, plus 1.8 MHz as a Marconi-type using an antenna tuner. Consists of a 102 ft. flat top with a 31 ft. section of KW twinlead, a combination transformer-coupler and 70 ft. of RG-8X coax. 2KW rated **\$60.99**

G5RV-JR - 7-30 MHz, 52 ft. flattop **30.99**
G5RV-E - 3.5-30 MHz, 102' flattop **35.99**
G5RV-M - 1.8-30 MHz, 204' flattop **60.99**

Parallel-Wire Multiband Dipole - Full-size, trapless multiband dipole performance using separate resonant-length wires for each band attached to a single center 50Ω feed point.

For Prices and other Products see Van Gorden in the Price Guide.

Price Guide
Used / Demo

Ham Radios

Ham Radio
Accessories

Antenna
Accessories

Publications

Other
Radios

Weather
& GPS

Audio / Video
& Tools

AES
Information

Lakeview Co., Inc.

WD4BUM HAMSTICKS®

Two-Piece Monoband Mobile Antennas Hamstick 75 thru 10 meter models consist of a 47 inch long x 1/2-inch diameter fiberglass base section with the loading coil wound over its length and covered with black PVC shrink tubing. It's fitted on one end with a 3/8" X 24" brass base fitting that fits most amateur mobile mounts. A black 48 inch tempered stainless steel whip telescopes into the top of the base section and provides for frequency adjustment. The 6 meter model has a 34 inch base section and whip. Convenient frequency vs length graphs are included with the instructions.

If the antenna shows a SWR of 1.5 to 1 or better, no matching should be necessary. However, if it is, which may be especially true on 40 and 75m, you can capacitively match the base using values recommended in the instructions. If you frequently change bands you can use the WD4BUM INDUCTI-MATCH (IM-1) which consists of an impedance matching coil that simply installs at the base of the antenna. Using the supplied clip lead, you just tap up the coil for the best match.

Models

9106 (6M)	9110 (10M)	9112 (12M)
9115 (15M)	9117 (17M)	9120 (20M)
9130 (30 M)	9140 (40M)	9160 (60M)
9175 (75M)		

All Hamsticks each **\$29.99**

901 Dipole Mount – for 2 Hamsticks .. **16.99**

IM-1 Inducti-Match **22.99**

TM-1 License Plate Mount – 3/8" x 24" **49.99**



ATAS-25 HF/VHF/UHF QRP Field

Antenna – Perfect for portable use with the Yaesu FT-100D, FT-817, FT-857 or FT-897. Covers 7, 14, 21, 28, 50, 144 and 430 MHz with band switching accomplished by changing supplied elements and adjusting coils. Matched SWR is less than 2.0:1; Power: (HF/6M) 100W SSB/CW @ 50% duty cycle (50W AM/FM); (144/430 MHz) 50W all modes; Requires camera-type tripod (not supplied); SO-239 base. Dim: 7.2 ft. high; 2.05 lbs..... **\$249.99**

ATAS-120 HF/6/2/430 Motorized

Tuning Antenna – Motor resonates the radiating element for lowest SWR using control voltages sent via the coaxial cable from Yaesu transceivers equipped for the ATAS system. Without duplexer, coaxial cable must be moved manually to correct jack when switching (VHF/UHF). Solid, sliding sections tune quickly. Mounts directly onto a standard Diamond or Comet mobile mount. Power: 120W maximum; Less than 2:1 VSWR. Dim: 4.59 to 5.25 ft.; 1.98 lbs..... **\$299.99**

ATBK-100 VHF/UHF Antenna Base Kit – Not required, generally, unless operating the VHF or UHF bands with the ATAS-120 off-vehicle (on balcony railing, etc.). It restores the low-angle response for enhanced performance. Use with suggested base mount..... **\$99.99**



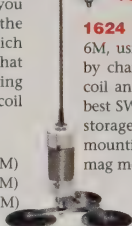
MFJ

Manually Tuned
Screwdriver Antenna

Small and lightweight, supplied with a 4.5 ft. telescopic whip for mobile and a 10 ft. telescopic whip for greater efficiency stationary use. Quickly and easily tuned by sliding the aluminum cover over the coil. Copper beryllium finger stock completely surrounds the coil for solid connection as tuning is accomplished. Unused turns on the antenna are shorted out and completely shielded. Once tuned, a nylon tipped thumbscrew locks the cover in place to prevent movement. The 4.5 ft. whip collapses to 23 in., the 10 ft. whip to 19 in. Coil and whips can easily be packed into a backpack for hiking or camping. A standard 3/8" x 24 male mount in the base makes it easy to connect to an existing mount.

1661 – 40-2M, 12 in.; 1 lb **\$129.99**

1664 – 80-6M, 15 in.; 1.25 lbs **\$159.99**

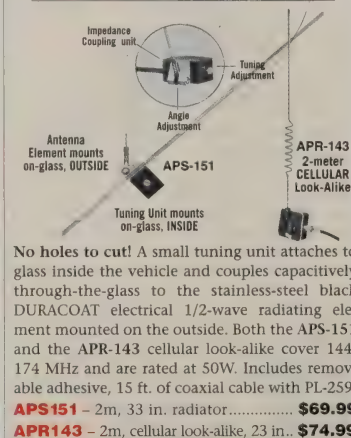


1624 HF Mini Bugcatcher – Operate 40 thru 6M, using up to 300W P.E.P. Very simple tuning by changing the tap on the efficient air-wound coil and adjusting the supplied counterpoise for best SWR. The 5.5 ft. whip collapses to 2.5 ft. for storage or avoiding a garage door. Versatile mounting using a trunk lip, mirror, luggage or tri-mag mount (shown but not included)... **\$79.99**

1899T Walkabout™ Multi-band Telescoping Antenna – Designed specifically for the Yaesu FT-817 multi-mode HF/VHF/UHF portable transceiver or other QRP portables. Covers all bands (including WARC bands) from 80 to 6 meters. Power rating is 25 Watts. When fully extended it is just over 5 ft. long and is fitted with a BNC connector. Band changing is achieved by plugging a lead into the appropriate socket on the base coil, and fine tuning using the 10-section telescopic whip. For storage or travel, the whip unscrews from the base matching coil and measures only 8 in. collapsed **\$69.99**

ANTENNA SPECIALISTS

"On-Glass" Mobile Antennas



High Sierra Antennas

PLATINUM PACK Continuous coverage Motor Driven HF Antenna Package – The HS-1800/PRO antenna provides continuous tuning from 3.5–30 MHz with a typical VSWR of less than 1.5:1 across the entire tuning range. Removing the supplied 6 ft. whip changes the range to 6.9–60 MHz. The "best antenna" for general mobile use because of its light weight, high performance and ability to cover the entire HF spectrum. Great for stealthy operation at antenna-restricted QTHs, ARES/RACES and more! The complete package, ready to install, includes the HS-1800/PRO, black powder coat finish with black stainless-steel whip, black universal mounting bracket, quick-disconnect manual control box, RF filter assembly and installation kit (20 ft. of control cable, wire ties, (2) PL-259's, 3 ft. of ground strap and sealing material) **\$545**

SIDEKICK Continuous Coverage, Motor Driven HF Antenna – Similar in design to the HS-1800/PRO but, only 15 in. tall and comes with 3 ft. whip. Covers 3.5–60 MHz with a 200W power rating. Includes manual control box, RF filter assembly and 3/8-24 threaded base to use with a mounting bracket. **\$395**

SIDEKICK I-BOX Continuous Coverage, Motor Driven HF Antenna – Same as Sidekick, but includes a semi-automatic I-box controller for Icom transceivers: IC-703, 706, 718, 736, 746, 756, 765 and IC-775 with no external power needed. To tune, just press the switch on the control box. The transceiver automatically transmits with low power. When the SWR drops down, release the switch. Typical tune-up is less than 10 seconds **\$445**

I-BOX7000 I-BOX for Icom IC-7000 **\$110**



Motorized Antenna Accessories:

HS-202CL Layback Adapter – Fits a 2 in. trailer hitch receiver. Removing a pin allows the vertical rod to lay back at a 45° angle for access to trunk, rear hatch or tail gate. Black powder coat **\$130**

HS-214CL Layback Adapter – Same as 202CL but fits 1.25 x 1.25 in. hitch receiver **\$130**

SIX SHOOTER Capacity Hat – Shown mounted on the Sidekick. Improves performance **\$70**

STAKE HOLE MOUNT – Used to install the Sidekick and other antennas into the stake hole on a pickup truck (bed sidewall). It has an SO-239 with a 3/8-24 thread for the antenna connection..... **\$27**

TRIPOD DELUXE – A strong aluminum adjustable 6 ft. tripod, the perfect antenna mount for the next trip or emergency. Includes a stainless angle 3/8-24 thread antenna mount with SO-239 connector and (8) 10 ft. long wire radials **\$130**

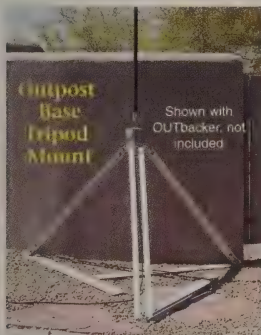
HITCHIN' POST – Mounts under a trailer hitch-ball. Made from thick stainless steel, black powder coated. Standard 3/8-24 thread antenna mount, SO-239 connector and ground screw **\$50**

OUTbacker System

The Outbacker - provides efficient, multiband mobile performance in a rugged, lightweight, single whip design. Its sleek, low profile design allows use with standard 3/8-24 bases and trunk-clip mounts.

It features a fiberglass shaft, using a pre-tuned copper helical winding with clearly marked brass band taps at points along its length. A final coating of smooth epoxy resin and polyurethane, gives the OUTbacker a toughness and durability not found in other brands, while making a really good looking mobile installation.

To change bands, simply plug into the desired band tap and resume operating without changing whips, resonators, or retuning.



The Outpost Base Tripod Mount - A convenient way to use mobile antennas in BASE or PORTABLE applications. The large (36"x3") fold out feet form a large capacitor with the earth resulting in greatly improved efficiency. Makes an ideal condo, limited space antenna system that can provide incredible DX performance. Compact, fold-up design sets up quickly and collapses in seconds with no holes, no concrete required. Mount: 3/8" x 24 thread.

See Price Guide for listing of all OUTbackers and Accessories


ICOM

AH-703 HF/50 MHz Five-Band Antenna - Designed for convenient portable operation when using ICOM's IC-703 and IC-703PLUS. It covers the 7, 14, 21, 28 and 50 MHz bands with a 1/4-wave design and has a 20 Watt power capacity. The bands are covered by simply changing the supplied coils. The base terminates in a PL-259 connector which requires a PO-style mount. Dim: 4.6 ft. high; 12 oz.... **\$199.99**



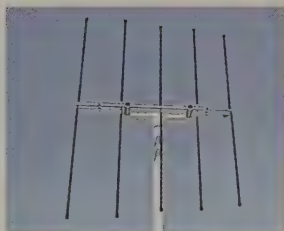
36S Goliath Tri-Magnet Mount has three super strong 5-in. magnets bolted to 1/4 in. thick triangular mount. Mount accepts 3/8"-24 stud. Comes with 17 ft. of coax cable and PL-259 connector **\$34.99**





ELK ANTENNAS

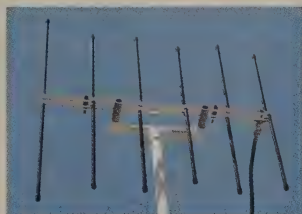
Log Periodics - Super wideband performance yielding great gain, high front-to-back ratio and low SWR without tuning. Designed with the latest software!



2M/440-L5 2M/440 MHz Log Periodic - Dual band operation without a duplexer, and only one feedline. Great for HT satellite contacts. Change polarity by twisting the mounting assembly to change from vertical to horizontal. Quick assembly and disassembly for portability. Color coded elements screw onto studs on the color-coded boom. Corrosion resistant, aluminum alloy, boom, black anodized aluminum elements and stainless hardware. **144-148 MHz**; 5 elements; 6.8dbd gain / **430-450 MHz**; 7dBd gain; 1:1 SWR; 20+dB F/B ratio; rated 200W (2M), 100W (440); 24 in. boom; 1.3 lbs..... **\$89.99**



440-L8 440 MHz Log Periodic - The latest model with increased gain and wide bandwidth. It's really great for 2M fox hunting, allowing radiation of the 3rd harmonic for a harder to find signal. Color coded boom and elements for easy, portable assembly and disassembly. Uses 6061-T6 aluminum alloy and stainless steel hardware provides strength and long life. **420-450 MHz**; 8 elements; 8dB gain; 1:1 to 1.5:1 SWR; rated 200W; 24 in. boom; 12 oz..... **\$81.99**



220-L6 220 MHz Log periodic - All of the great Elk Antenna log-periodic features in a popular 220 MHz version. **222-225 MHz**; 6 elements; 7.3 dB gain; 1:1 SWR; 28+ dB F/B ratio; 24 in. boom; 1.3 lbs..... **\$81.99**

ELK BAG Canvas Carrying Bag - For convenient transporting of all ELK antennas... **\$24.99**

Silver-TEFLON® connectors on all models

Arrow Antenna

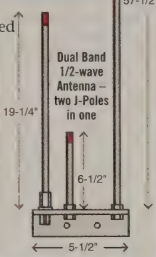
146/440 MHz Dual Band J-Pole Antenna

This a very Heavy Duty antenna. The elements are made from 3/8 in. solid round aluminum stock with a heavy duty angle mounting bracket and mounting hardware for masts up to 1-1/2 in. included.

- Covers 143-149 and 437-450 MHz
- Single SO-239 feed connector
- Omni-Directional radiation pattern
- Wide Bandwidth
- VSWR less than 1.5:1
- Gain over a 1/4-wave
- No Ground Plane required

OSJ-146/440 \$39.00

Mounts just about anywhere: in attic, on a roof vent pipe (up to 1-1/2"), on metal, wood or fiberglass poles, on fiberglass or plastic vehicles, trucks, boats.



RUFFRIDER™ MOBILE ANTENNAS (mounts not included)

Quality construction using precision machined components. Rugged, designed to battle the elements.

Dual band 144/440 MHz mobiles have stacked stainless steel elements with high-Q phasing coils resulting in outstanding gain. Phased radiators flatten radiation patterns and concentrate transmit power at the horizon for maximum distance.

All models are factory tuned for SWR less than 1.5:1 and have 50Ω impedance. Each comes w/SO-239 base, but also includes a FREE NMO adapter.

1402 Junior - 16.5 in., handles 100W. Unity gain on 2M, 3dB gain 440 MHz. No fold-over... **\$34.99**

1412 High Power - Only 40 in. long but handles a full 200W. Great for high power mobile & amp. 3dB on 2M, 5.5dB on 440 MHz **\$49.99**

1422 High Gain - 41.5 in. long giving you extra gain with little increase in height. Handles 150W. 3.2dB on 2M, 5.7dB on 440 MHz **\$49.99**

1432 Hyper Gain - 62.5 in. long. 5dB gain on 2M, 7.6dB gain on 440 MHz. Handles 150W ... **\$69.99**

1436 Triple Threat - 59 inches long, stacked elements with high-Q phasing coils give a whopping 7.3dB gain on 440MHz, 4.5 dB on 2M and 2.15dB on 6 Meters. Handles 150W..... **\$79.99**

Price Guide
Used / Demo

Ham Radios

Ham Radios
Accessories

Antenna
Accessories

Publications

Other
Radios

Weather
& GPS

Audio / Video
& Tools

AES
Information



High Performance Yagis - Combining the latest computer optimization techniques and decades of design experience by Mike Staal, K6MYC. A wide selection to fit your exact needs.

Models - See M² in the Price Guide

HO Loops - At times when using highly directional VHF or UHF antennas there are signals you cannot hear off the sides and back. The addition of a horizontally polarized and omnidirectional HO-Loop to your setup will enable you to be aware of those stations you may be missing. Great for round tables, nets and monitoring for band openings. A super mobile antenna! Contacts up to 200 miles not uncommon. Typical gain is 4.0+ dBd, and power rated at 800W or 1.5kW stacked.

6M-HO-LOOP	
50-50.3 MHz, 29.5 in. square	\$129.99
2M-HO-LOOP	
144-144.5 MHz 11.25 in. square	\$56.99
222-HO-LOOP	
220-224 MHz, 7.75 in. square	\$56.99
432-HO-LOOP	
430-436 MHz, 4.4 in. square	\$56.99

Find detailed information on all M² Antennas at: www.m2inc.com



A-99 10M Base Antenna with Twin Ring Adjust-A-Match Tuning - Voltage-fed, half wave variable, mutual transfer inductance tuned antenna. It's economical and easy to use! The SOLARCON sealed base unit is tuned with external inductance rings. Impedance remains constant over the tuning range. Simple Tuning! Raising the tuning rings raises the frequency and lowering the rings lowers the resonant frequency.

Rugged, three-piece, white fiberglass construction with triple-plated brass fittings. It's easy to assemble and install. The optional GPK-1 ground plane radial kit makes it perform even better!

Full 10 meter band coverage; 3 dB gain; 2kW power limit; Low angle of radiation for DX; DC grounded; Mounts on 1.5 in. mast; Uses 52Q coaxial cable with SO-239 connector. Overall length is 17 ft. 8 in. **\$79.99**



GPK-1 Groundplane Kit
Use with the A-99 for 30% gain and lower angle of radiation. Collar and 4 fiberglass radials **\$59.99**

CM FULL BODY CLIMBING HARNESSSES

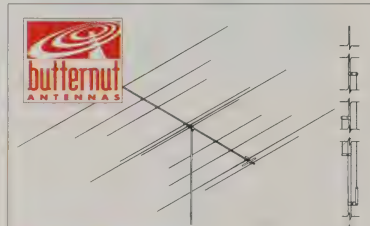


TowerMate LE[™] (left) Chest-high front D-ring for fixed climbing. Made of polyester, easy on/off. Two D-ring harnesses offer sliding D-ring at center of back, and chest-high front D-ring. Four D-ring harnesses have sliding D-ring at center of back, chest-high front D-ring and D-ring on each hip.

FP-56222 - Two D-ring, 2.7 lbs., S-L	\$85.99
FP-56224 - Two D-ring, 2.8 lbs., L-XL	85.99
FP-56422 - Four D-ring, 3.0 lbs., S-L	99.99
FP-56424 - Four D-ring, 3.2 lbs., L-XL	99.99

EagleTower LE[™] (right) Six D-ring tower saddle harnesses with padded seat and shoulder straps, and removable tool belt. Sliding D-ring at center of back, chest-high front D-ring, D-ring on each hip and each end of seat strap, black 1.75" nylon tongue buckle leg strap, red 1.75" polyester shoulder straps, two accessory rings attached to 5" padded backpad and seat-strap and carry-all bag.

FP-66611 - 5.1 lbs., small	\$246.99
FP-66612 - 5.2 lbs., medium	246.99
FP-66613 - 5.3 lbs., large	246.99
FP-66614 - 5.4 lbs., extra large	246.99



YAGI
SKYHAWK 3X10 Triband Yagi - A design breakthrough. 3-band, 10-element, 20/15/10M, rust free. **Drop Ship \$1149.99**
HF-2V 80/40 Vertical - Optimal output on 80 and 40m because the full length of 32 ft. is used on both bands **\$299.99**

VERTICALS
Take advantage of all HF bands from 80 to 6m with high efficiency - without losses through traps. Both antennas (HF-6V, HF-9V) are only 26 ft. high and can be mounted directly on the ground or elevated on a roof top. Additional accessories may be found in the Price Guide under Butternut.

HF-6VX 6-Band Vertical	\$389.99
HF-9VX 9-Band Vertical	\$449.99



We accept I.M.P.A.C.® Government Credit Cards



The Phantom[®] - The low profile, whipless design doesn't look like a regular antenna so it attracts less attention. Requires NMO-style mount.

TRABT-1420 VHF - Tunable 142-164 MHz, uni gain. Black, 3.3" tall x 1.5" dia. radome **\$59.99**

TRAB-4303 UHF - Covers 430-450 MHz, 3 dB gain. Black 3.3" h x 3.5" dia. radome **\$29.99**

BB-1443 VHF Wideband Antenna
Base loaded 5/8-wave. Covers 144-174 MHz, 3dB gain, 49 in. tapered whip. Requires NMO mount. (Black) **\$39.99**

CWB-1443 VHF 5/8-Wave Broadband
Self Tuning 144-156 MHz, 3dB gain, 47" tapered whip. (Black) **\$49.99**

CWB-4405C UHF Wideband
Collinear - Self Tuning 440-470 MHz, 5dB gain, 32" tapered whip. Requires NMO mount. (Black) **\$49.99**

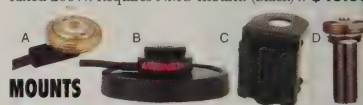
BB-1442N Broadband, 5/8-Wave No
Ground Plane - Base loaded, 144-174 MHz, 2.4dB, 49" tapered whip **\$39.99**

BB-4303 UHF 5/8-Wave - Covers 430-450 MHz, 3dB gain, 11.8" straight whip. Requires NMO mount. (Black) **\$34.99**

AB-FT Broadband 1/4-Wave - Tunable 118-896 MHz, unity gain, requires NMO mount **\$16.99**

AB-SCANC Collinear Scanner Antenna - For 150/450/800 MHz receive only. Requires NMO mount. (Black) **\$29.99**

CB-144/440C Collinear Dualband VHF/UHF
Covers 144-148 & 440-450 MHz, 2/5dB, 36" whip. Rated 200W. Requires NMO mount. (Black) **\$49.99**



MB-8PST NMO Permanent Brass Hole Mount
(A) Quality brass alloy, silver-soldered ground lug. Mounts in 3/4" hole. Includes 17' RG-58A/U stranded cable with Teflon[®] PL-259 connector **\$15.99**

GB-8PSTI NMO Magnetic Mount (B) - Strong, 90 lbs. pull. Mylar sole prevents scratches. Includes 12' RG-58A/U with Teflon[®] PL-259 connector **\$29.99**

LBMB-9034 Mirror Mount L-Bracket (C) - Strong aluminum, black. For 3/4" hole mounts **\$10.99**

VTPM Plate Mount (D) - 1" thick, NMO **\$15.99**

Gold-Anodized Welded Yagis
Internally matched, wide band, no tuning. End-of-boom N-type connector, internal transmission line feeds the driven element.

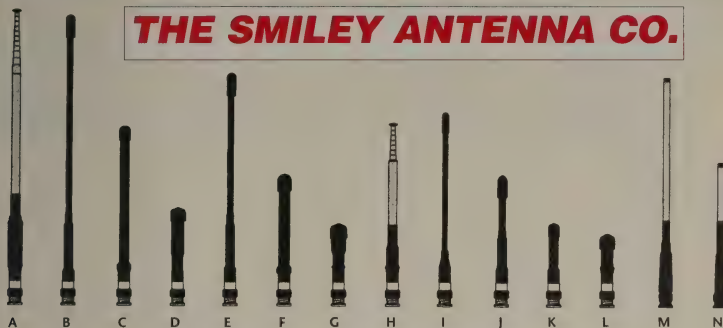
Y-1363 3-Element VHF - Covers 136-150 MHz, 7.1 dBd, 17 dBd F/B. Rated for 500W. Mounts on mast up to 2.5" diameter **\$119.99**

Y-4303 3-Element UHF - Covers 430-450 MHz, 7.1 dBd gain, 17 dB F/B. Rated for 300W. Mounts on mast up to 2.5" diameter **\$99.99**

Y-1365 5-Element UHF - Covers 430-450 MHz, 9.2 dBd gain, 20 dB F/B. Rated for 300W. Mounts on mast up to 2.5" diameter **\$169.99**

Fiberglass Omnidirectional Base Antennas - for 144-148 and 440-450 MHz. White fiberglass with gold anodized sleeve and cap and N-female connector. For models, see Antenex in the Price Guide

THE SMILEY ANTENNA CO.



HAND TUNED ANTENNAS FOR HANDHELD RADIOS

Each Smiley antenna is individually tuned to resonance at the band center under normal operating conditions (no ground plane, no radials). They're manufactured from the finest heat-treated copper plated spring steel coils. Cold rubber compound is used for coil insulation with a neoprene heat-shrink coating applied for strength and endurance. All have BNC connectors.

- TS Thin Stick** - 1/4-wave telescoping dual band antenna for 144 and 220 MHz bands..... **\$16.99**
- SS-II Super Stick II (A)** - 2M, 5/8-wave, flexible base loaded telescoping antenna. 6-9db gain fully extended. Usable fully collapsed, or one section 1/4 wave. 54" extended, 10" collapsed..... **\$19.99**
- SS-II/COMBO Super Stick II Combo** - Same as above, but includes a 2m stubby duck..... **\$29.99**
- 5/8 SLD-2 5/8 Slim Duck (B)** - 2m, 5/8-wave, 7db gain, flexible base loaded ant. 12" long..... **\$19.99**
- 5/8 SLD-2 COMBO 5/8 Slim Duck Combo** - As above, but includes a 2m stubby duck..... **\$29.99**
- RD-2 Regular Duck (C)** - For 2m. Tuned ducks show a 3db gain over other rubber ducks because they are impedance matched for HTs..... **\$15.99**
- RDS-2 Stubby Duck (D)** - Tuned, for 2m **\$15.99**
- SS-III Super Stick III** - 220 MHz 5/8-wave, flexible base loaded telescoping antenna. 6-9 db gain extended; usable collapsed, or a one-section 1/4-wave. 36" extended, 8 3/4" collapsed..... **\$19.99**
- SS-III/COMBO Super Stick III/Combo** - As above, but includes a 220 MHz stubby duck..... **\$29.99**
- 5/8 SLD-220 5/8 Slim Duck (E)** - 220 MHz, 7db gain, flexible base loaded 9" antenna..... **\$19.99**

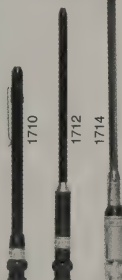
- 5/8 SLD-220 COM 5/8 Slim Duck Combo** Same as above, but includes a 220 MHz stubby duck antenna..... **\$29.99**
- RD-220 Reg. Duck (F)** - 220 MHz, tuned **\$15.99**
- RDS-220 Stubby Duck (G)** - As above... **\$15.99**
- SS-IV Super Stick IV (H)** - 440 MHz 5/8-wave, flexible telescoping ant. 6-9db gain extended; usable collapsed. 18" extended, 5 3/4" collapsed..... **\$19.99**
- SS-IV/COMBO Super Stick IV Combo** - Same as above, plus has 440 MHz stubby duck..... **\$29.99**
- SL-440 Slimline (I)** - 440 MHz, 3/4-wv. flex **\$15.99**
- 5/8 SLD-440 5/8 Slim Duck (J)** - 440 MHz, 7db gain, flexible base loaded 5" antenna..... **\$19.99**
- 5/8 SLD-440 COM 5/8 Slim Duck Combo** As above, plus has a 440 MHz stubby..... **\$29.99**
- RDS-440 Stubby (K)** - 440 MHz, tuned. **\$15.99**
- RDMD-440 Mini Duck (L)** - As above.... **\$15.99**
- FLX 1/2 WAV-2M Flex-Coil (M)** - 2M, 1/2-wave, 7-9db gain, flexible base, 35" fully extended **\$25.99**
- 270A (N)** - Telescoping 2m/440 gain antenna. 1/4-wave (2m) 5/8-wave (440 MHz). The 270A is also available with SMA..... each **\$19.99**
- TAQ** - 1/4-wave whip antenna, specify for 2M, 220 or 440 MHz each **\$10.99**

HT RANGE EXTENDERS

- 714 Long Ranger** 2M halfwave BNC - This end-fed 1/2-wave is hard to beat. It outperforms a 5/8 wave because it does not need a ground plane. 40 in. extended, it's shorter, lighter, has more gain and places less stress on the antenna connector. When collapsed to 10.5 in., it performs equal to a regular rubber duck.... **\$16.99**
- 712 Dual Bander** 2M/440 MHz BNC - 1/4 wave for 2m and 5/8 wave with gain for 440 MHz. Dim: 7.25 in. collapsed, 40 in. extended..... **\$14.99**
- 712S** - Same as 1712 w/SMA connector..... **\$14.99**
- 710 Pocket Linear** 3/8 Wave, 2M BNC - Carry your pocket like a ballpoint pen. When using your rubber duck, on the fringe & noisy, put on the Pocket Linear, extend to 24.5 & carry on your QSO. Only 5.25 in. collapsed. Pocket clip..... **\$9.99**

MFJ

BNC Connectors



Midget Duck for 2M/440 MHz

An amazing antenna for its size. Less than 1 inch tall, it's great for travelling and monitoring and doesn't get in the way. Also works well for signals at 1200 MHz. Order **1719** with BNC connector or **1719S** with SMA..... each **\$19.99**

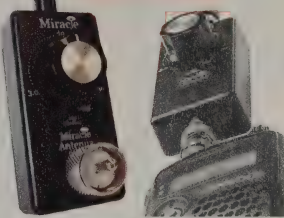
Clip Window Mount for Handheld Antennas

When mobile you can get out better by detaching the antenna from your HT and installing it on this handy window clip mount. It holds the antenna securely on the glass outside of your car and dramatically improves both transmit and receive signals. Comes with 10 ft. of mini-coaxial cable. Order **310** with BNC connector or **310S** w/SMA..... each **\$19.99**

More HT Antennas on Comet/Maldol, Diamond, Larsen and Premier pages



Miracle Antenna



MIRACLE WHIP

DUCKER IL

Miracle Whip

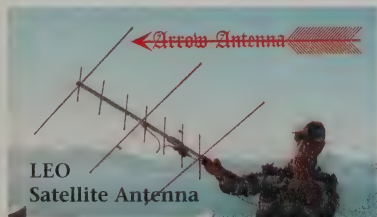
All Band, Rig Mounted Tunable Whip

For the FT-817, and other QRP (5W) or SWL rigs. The Miracle Whip is the only completely self-contained, all-band 57" telescoping whip antenna with integrated tuner for receiving and transmitting that mounts right on a radio's antenna connector. Continuous tune 0.6 to 500 MHz RX and continuous tune 3.5 to 450 MHz TX. The continuously variable auto transformer design operates effectively without any added counterpoises as the continuously variable nature permits finding a good match when there is no "standard" counterpoise attached. In effect, it uses whatever ground paths are available as a counterpoise..... **MIA Miracle Whip \$129.99**

Miracle Ducker

Wideband for your Wideband Handheld

Transforms your rubber duck into an all-band HF/VHF/UHF transmitting and receiving antenna with up to 30dB of Receive gain, virtually noise free on HF. Your portable or base rig now can receive AM, the Ham bands, International Shortwave, CB, FM, Airband, VHF and more - all on a rubber duck. And for more fun, you can still transmit thru with the same antenna at QRP levels. The built-in BNC connector, mounts directly onto the radio. **MIA Ducker IL \$129.99**



LEO Satellite Antenna

- 146/437-10** - KK5YY working VE6EGN on the AO27 satellite using his handheld with only 500mW output, connected to an Arrow 146/437-10. The Arrow is designed to allow portable satellite operation using just an HT. It's engineered to provide maximum gain and efficiency within a small size and weight. The boom is 3/4 in. square aluminum stock, 37.5 in. long with a foam grip on the back end. The three VHF and seven UHF Gamma matched elements with separate BNC connectors are aluminum arrow shafts which are strong and lightweight, and plastic tipped for safety.. **\$73.00**
- 146/437-10BP** - Split boom model..... **\$79.00**
- 10W DUPLEXER** - Allows you to hear the down link while you are transmitting. Installs inside the boom and includes connecting coax cables with BNC connector..... **\$59.00**
- DUPLEXER SMA** - Same, SMA connector **\$64.00**

CRANK IT UP!

MA SERIES CRANK-UP TUBULAR TOWERS

The premier MA-Series towers are designed to be both safe and neighbor-friendly. The slender design gives a clean flagpole-like appearance while allowing antennas from 15.3 to 22 sq. ft. in 50mph winds, depending on the model.

Model	Height max./min.	Sections	Weight (in lbs.)	Section OD top/bottom	Base	Price
MA-40	40'/21'6"	2	242	3"sq./4.5"	3'x3'x4'6"	\$1299.99
MA-550*	55'/22'1"	3	435	3"sq./6"	3.5'x3.5'x5'	\$2019.99
MA-770*	71'/22'10"	4	645	3"sq./8"	5'x5'x5'6"	\$3329.99
MA-850*	85'/23'6"	5	943	3"sq./10"	5'x5'x6'	\$5159.99

*Also available as tower/heavy-duty motor drive (positive pull down) package. Requires purchase of MCL-100 limit switch control or RMC-1000 remote control. 770 and 850 require MAB or MARB series base.

FREE STANDING "LOW-PROFILE" CRANK-UP LATTICE TOWERS

The compact TMM Series are designed to offer an alternative for clients in height restricted areas. These towers have a minimum retracted height of 11'4" to 12' (depending on rotor). Visual impact is reduced and antenna servicing is made easier. The TMM Series are light-weight, freestanding, and allow up to 50 sq. ft. of antenna in 50mph winds.

Model	Height max./min.	Sections	Weight (in lbs.)	Section OD top/bottom	Base	Price
TMM-433SS	33'/11'4"	4	315	10"/18"	4'x4'x4'6"	\$1759.99
TMM-433HD*	33'/11'4"	4	400	12.5"/21.5"	4'x4'x5'	\$2119.99
TMM-541SS*	41'/12'	5	430	10"/21.625"	4'x4'x5'	\$2299.99

*Will accept the MDP-750 motor drive, factory installed only.

FREE STANDING CRANK-UP LATTICE TOWERS

The standard duty TX Series are as strong or stronger than most competitors' heavy-duty models. They have 21' sections with 4' overlap to provide extra height, as well as to help prevent binding in high winds. The TX Series comes complete with rotor plate and base hardware and require no guying. All bases will accept the TRX Series raising fixtures.

Model	Height max./min.	Sections	Weight (in lbs.)	Section OD top/bottom	Base	Price
TX-438	38'/21'6"	2	355	12.5"/15"	5'x5'x5'	\$1649.99
TX-455	55'/21'6"	3	670	12.5"/18"	5'x5'x6'	\$2269.99
TX-472*	72'/22'8"	4	1040	12.5"/21.625"	5'x5'x6'6"	\$3729.99
TX-489MDPL**	89'/23'4"	5	1800	12.5"/25.625"	5'x5'x8'	\$9729.99

*Also available as a tower/heavy-duty motor drive (with positive pull down) package. Requires purchase of MCL-100 limit switch control or RMC-1000 remote control. **Comes with heavy-duty motor drive with dual level wind and positive pull down. Requires purchase of MCL-100 limit switch control or RMC-1000 remote control.

FREE STANDING HEAVY-DUTY CRANK-UP LATTICE TOWERS

The HDX Series heavy-duty telescoping towers have up to 2-1/2 times more wind loading capacity than others (up to 70 sq. ft. at 50mph). This allows for large stacked arrays, while using commercial-type bases and anchor bolts. All T-bases can utilize the TRX Series raising fixtures, allowing the tower to hinge. None of the lattice style towers require guying.

Model	Height max./min.	Sections	Weight (in lbs.)	Section OD top/bottom	Base	Price
HDX-538	38'/21'6"	2	600	15"/18"	5'x5'x6'	\$1959.99
HDX-555	55'/21'6"	3	870	15"/21.625"	5'x5'x6'6"	\$3419.99
HDX-572MDPL*	72'/22'8"	4	1600	15"/25.625"	4'x4'x8'	\$8919.99
HDX-589MDPL*	89'/23'4"	5	2440	15"/30.625"	5'x5'x8'	\$11669.99
HDX-5106MDPL*	106'/24'8"	6	3805	15"/37.125"	5'x5'x9'	\$24529.99

*Includes heavy-duty motor drive with dual level wind and positive pull down. Requires purchase of MCL-100 limit switch control (included with 589MDPL and 5106MDPL) or RMC-1000 remote control.



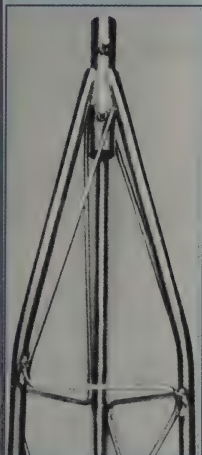
Headquarters
1099 W. Ropes Ave.
Woodlake, CA 93286
(559) 564-6000

Second Location
702 E. North St.
Lincoln, KS 67455
(785) 524-9966

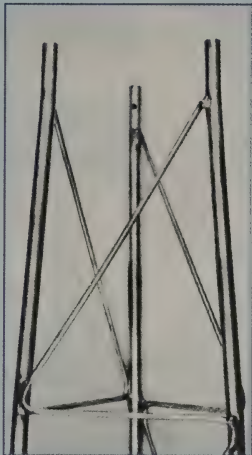
UNIVERSAL TOWERS

ALUMINUM, FREESTANDING, SELF-SUPPORTING AT RATED LOAD

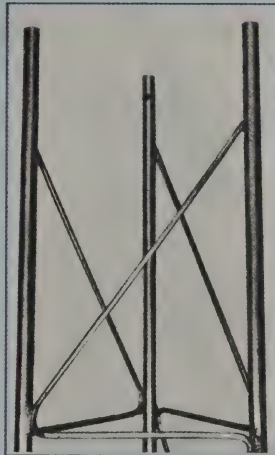
LIGHTWEIGHT • RUST FREE • EASY TO ASSEMBLE • RUGGED STRENGTH
for AMATEUR RADIO • TV • FM • INDUSTRIAL • FIRE • POLICE • MARINE



TOP SECTION



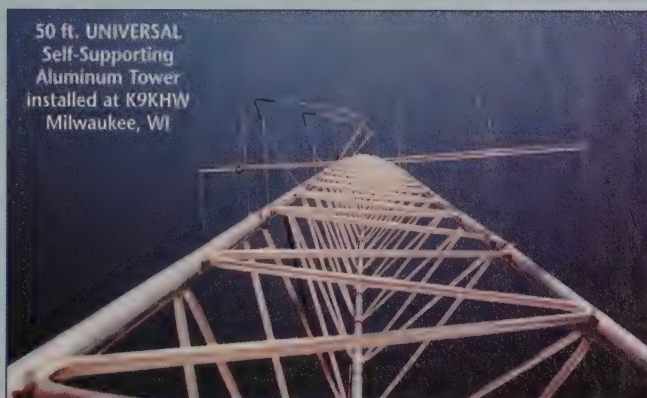
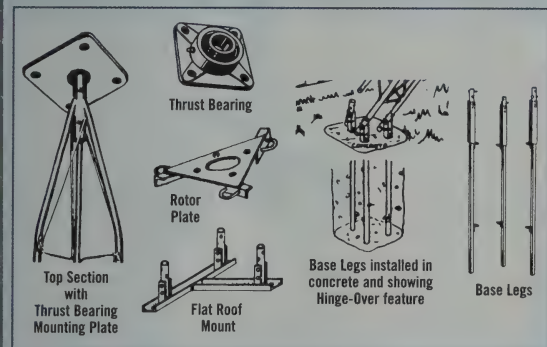
TAPER SECTION



STRAIGHT SECTION



Write or
Call for a
complete
**UNIVERSAL
TOWERS**
Catalog
FREE!



50 ft. **UNIVERSAL**
Self-Supporting
Aluminum Tower
installed at K9KHW
Milwaukee, WI

SECTIONS

Universal Aluminum Tower sections are an equilateral triangular welded truss, 10 ft. in length and available 11, 14, 18, 22, 26 or 30 inches wide.

CHOOSING THE PROPER TOWER

- (1) Determine the projected surface area of the antenna that you intend to mount. This figure is often in the literature that comes with the antenna. Otherwise: standard TV antennas are about 2 sq. ft. in area; 6/10 meter beams and large TV antennas are 5 sq. ft.; 20/40 meter beams are 9 sq. ft.; large 20/40 meter beams or multiple antenna arrays are 18 to 26 sq. ft. Also, when using a rotator add 1 sq. ft. plus 1 sq. ft. for the mast to whatever size antenna you intend to use.
- (2) Decide on the tower height that you want. Universal Towers are made in 10 foot sections to give you many possible sizes and the ability to add sections later.
- (3) Choose the tower model based on height and windload. The model number is merely the wind loading followed by the height. For example, if your antenna calculation resulted in a tower designed for 5 sq. ft. and you wish it to be 50 ft. high, the model you want is a **5-50**.

See the Price Guide for Configurations and Prices.

No Guys!

Self-Supporting at the Rated Load

BEFORE BUYING A TOWER

Consider the advantages of -

ALUMINUM

It's Strong, Lightweight, Rust Free and easy to assemble and erect.

UNIVERSAL offers 10' sections or complete towers ranging from 30 to 100' with a choice of wind load ratings and accessories.

All towers are drop shipped direct from the factory. Shipment is FOB Mt. Clemens, MI via truck, COD for freight charges only. Freight charges will be collected upon delivery by the carrier.

hy-gain ROTATORS

... the first choice of hams around the world!



The HAM-IV

is the most popular rotator in the world! It is designed for medium communications arrays of up to 15 sq. ft. wind load area. Low temperature grease permits normal operation down to -30° F. New alloy ring gear gives extra strength up to 100,000 PSI for maximum reliability. The indicator potentiometer leads have ferrite beads to reduce RF susceptibility. For convenience a Cinch® plug connector is used at the rotor plus an 8-pin plug at the control box. Dual 98 ball bearing race for load bearing strength and electric locking steel wedge brake prevents wind induced antenna movement. North or South center meter scale. Maximum mast size: 2.063 in. **\$539.99**

HAM-IV Specifications

Wind Load cap.(inside tower)	15 square feet
Wind Load (w/mast adapter)	7.5 square feet
Turning Power (in lbs.)	800
Brake Power (in lbs.)	5000
Brake Construction	Electric Wedge
Ball Bearing Assembly	Dual race/98 bearings
Mounting Hardware	Clamp plate/steel U-bolts
Control Cable Conductors	8 (Belden 8448 or 9405)
Shipping Weight (lbs.)	24
Effective Moment (in tower)	2800 ft/lbs.

The TAILTWISTER SERIES II

is designed for medium communications antenna arrays of up to 20 sq. ft. wind load area. Available with DCU-1 Pathfinder Digital control box (T-2XD) or standard Analog control box (T-2X). Low temperature grease, alloy ring gear, indicator potentiometer, ferrite beads on potentiometer wires, weatherproof AMP connectors plus 8-pin plug at the control box. Triple bearing race with 138 ball bearings for large load bearing strength, electric locking steel wedge brake, North or South center meter scale, low voltage control. Maximum mast size: 2.063 in. **T-2X** with analog control **\$619.99** **T-2XD** with DCU-1 control. **\$979.99**

TAILTWISTER Specifications

Wind Load cap.(inside tower)	20 square feet
Wind Load (w/mast adapter)	10 square feet
Turning Power (in lbs.)	1000
Brake Power (in lbs.)	9000
Brake Construction	Electric Wedge
Ball Bearing Assembly	Triple race/138 bearings
Mounting Hardware	Clamp plate/steel U-bolts
Control Cable Conductors	8 (Belden 8448 or 9405)
Shipping Weight (lbs.)	28
Effective Moment (in tower)	3400 ft/lbs.

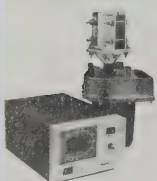


THE HAM-V

is designed for medium communications antenna arrays of up to 15 sq. ft. wind load area. Includes the innovative DCU-1 Pathfinder control unit. A strong 100,000 p.s.i. alloy ring gear and a new indicator potentiometer have been added for improved reliability. For convenience, a Cinch® connector is used at the rotor and an 8-pin plug at the control box. Ferrite beads reduce RFI. Powder coated finish. Max. mast size: 2.063 in. **\$899.99**

HAM-V Specifications

Wind Load cap.(inside tower)	15 square feet
Wind Load (w/mast adapter)	7.5 square feet
Turning Power (in lbs.)	800
Brake Power (in lbs.)	5000
Brake Construction	Electric Wedge
Ball Bearing Assembly	Dual race/96 bearings
Mounting Hardware	Clamp plate/steel U-bolts
Control Cable Conductors	8 (Belden 8448 or 9405)
Shipping Weight (lbs.)	24
Effective Moment (in tower)	2800 foot/lbs.



The HDR-300A

is the best for king-sized antenna arrays up to 25 sq. ft. wind load. Machined steel output gear. Tough, hardened stainless steel output shaft with a long keyway for added reliability. North or South centered calibration. Ferrite beads are installed on the potentiometer wires to reduce RF susceptibility. Heavy-duty self-centering steel mast clamp and hardware. Digital heading display accurate to 1°. Mast size: 1.25"-3". **\$1379.99**

HDR-300A Specifications

Wind Load capacity	25 square feet
Wind Load (w/mast adapter)	N/A
Turning Power (inch lbs.)	5000
Brake Power (inch lbs.)	7500
Brake Construction	Solenoid operated locking
Bearing Assembly	Bronze sleeve w/rollers
Mounting Hardware	Stainless steel bolts
Control Cable Conductors	7 (Belden 8448 or 9405)
Shipping Weight (lbs.)	55
Effective Moment (in tower)	5000 ft/lbs.



The AR-40

is for large FM-TV and compact communication antenna arrays up to 3.0 sq. ft. wind load area. The dual 12 ball bearing race is exclusive in its class. Automatic position sensor never needs resetting. Fully automatic control, just dial and touch for any desired location. Solid state, low voltage control. Safe and silent operation. Maximum mast size: 2.063 in. Includes light duty lower mast support. **\$289.99**

AR-40 Specifications

Wind Load cap.(inside tower)	3.0 square feet
Wind Load (w/mast adapter)	1.5 square feet
Turning Power (inch lbs.)	350
Brake Power (inch lbs.)	450
Brake Construction	Disc Brake
Ball Bearing Assembly	Dual race/12 bearings
Mounting Hardware	Plated clamps/steel bolts
Control Cable Conductors	5 (Belden 8448 or 9405)
Shipping Weight (lbs.)	14
Effective Moment (in tower)	300 ft/lbs.



The CD-45-II

handles 8.5 sq. ft. mounted inside a tower, or 5 sq. ft. with mast adapter. Low temperature grease good to -30°F. Bell rotator design gives total weather protection, dual 45 ball bearing race gives proven support. Diecast ring gear stamped steel gear drive heavy duty, trouble free gear train, North or South center scale, lighted directional indicator, 8-pin plug or control unit, snap-action control switches, low voltage control, safe operation, takes masts up to 2.063" Includes light duty lower mast support ... **\$389.99**

CD-45-II Specifications

Wind Load cap.(inside tower)	8.5 square feet
Wind Load (w/mast adapter)	5.0 square feet
Turning Power (inch lbs.)	600
Brake Power (inch lbs.)	800
Brake Construction	Disc Brake
Ball Bearing Assembly	Dual race/48 bearings
Mounting Hardware	plated clamps/steel U-bolts
Control Cable Conductors	8 (Belden 8448 or 9405)
Shipping Weight (lbs.)	22
Effective Moment (in tower)	1200 ft/lbs.

Rotator Accessories

- MSHD** Heavy duty lower mast support for Ham-IV/V, T-2X/XD. **\$99.99**
- MSLD** Lower mast support for CD-45-II, AR-40. **\$39.99**
- TSP-1** Tower spacer plate. **\$34.99**

Belden Rotator Cable

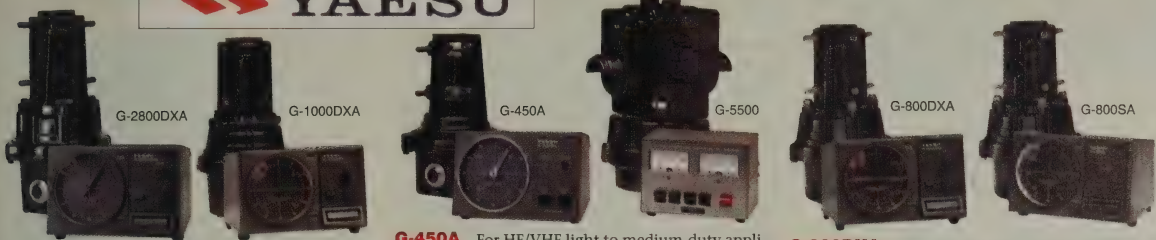
- 8448** Standard duty, 8-wire See BELDEN in the Price Guide, page 5
- 9405** Heavy duty, 8-wire
- 8484** Standard duty, 4-wire



The DCU-1 PATHFINDER

Digital Rotator Control unit compatible with CD-45-II, HAM-IV, T-2X

Automatic operation of brake and rotor with digital readout of your beam heading, accurate to 1-degree, and 360-degree choice for center of rotation. Automatic 8-second brake delay reduces stopping torque stress. Six presets store favorite headings. RS-232 control, compatible with many logging and contest programs. **\$649.99**



ROTATORS

Precision designed for a wide variety of antenna installations. Strong, weatherproof, die-cast aluminum enclosures; Permanently lubricated for years of smooth, quiet operation; 450° Rotation; Selectable north or south center; Quiet, gear reduction braking; 117/220 VAC; Fits most USA-made tower shelves.

G-2800DXA – The top-of-the line rotator for extra heavy-duty applications. 450° total rotation, with presets; 34 sq. ft. wind load; K-factor of 6870 ft. lbs.; 1808 ft. lbs. of stationary torque; Rotation torque: 57.8-181 ft. lbs., rotation speed and torque vary with the speed control setting; Maximum vertical load of 661 lbs.; ±1/2° backlash; 1.875–2.5" mast size; 48-150 second 360° rotation; Optional GS-232B interface; Includes 131 ft. of 6-wire cable. Dim: 8"dia. x 13.375" h; 13.2 lbs. **\$1139.99**

G-1000DXA – High-performance for medium and heavy-duty applications. Total rotational range 450°, with presets; 23 sq. ft. wind load; K-factor of 2020 ft. lbs.; 433 ft. lbs. of stationary torque; Rotation torque: 43-79 ft. lbs., rotation speed and torque vary with speed setting; Max. vertical load: 440 lbs.; ±2° backlash; 1.5–2.5 in. mast size; 35-74 sec. 360° rotation; Optional GS-232B interface; Requires 6-wire cable. Dim: 7.5"dia. x 12.5" h; 7.7 lbs. **\$519.99**

G-450A – For HF/VHF light to medium-duty applications, without presets; 10 sq. ft. wind load; K-factor of 722 ft. lbs.; 217 ft. lbs. of stationary torque; Rotation torque: 43 ft. lbs.; Maximum vertical load of 220 lbs.; 1.5–2.5 in. mast size; 53 second 360° rotation; Requires 5-wire cable. Dim: 7.5"dia. x 12.5" h; 7 lbs. **\$259.99**

G-5500 – Azimuth-Elevation rotator combo for satellite earth station and other space communication antennas. 11 sq. ft. wind load; 578 ft. lbs. K-factor; 145 ft. lbs. stationary torque; Rotation torque: 44 ft. lbs.; 440 lbs. max. vertical load; ±4% backlash; 1.5–2.5 in. mast; 58 second 360° rotation; 67 sec. 180° elevation; Opt. GS-232B interface/C-1000 cable; 1.25–1.625 in. boom dia.; Requires 2 x 6-wire cable. Dim: 12.5"dia. x 7.5" h; 20 lbs. **\$629.99**

G-550 – Elevation rotator, for satellite earth station and other space communication antennas; 12 sq. ft. wind load; K-factor of 578 ft. lbs.; 101 ft. lbs. of stationary torque; Rotation torque: 73 ft. lbs.; Max. vertical load of 440 lbs.; ±3% backlash; 1.5–2.5 in. mast size; 67 second 180° elevation; 1.25–1.625 in. boom diameter; Requires 6-wire cable. Dim: 10.5"dia. x 7.5" h; 7.3 lbs. **\$299.99**

G-800DXA – High-performance for medium-duty applications. Total rotational range 450°, with presets; 17 sq. ft. wind load; K-factor of 1299 ft. lbs.; 288 ft. lbs. of stationary torque; 43-79 ft. lbs. rotation torque (rotation speed/torque vary with the speed control setting); Max. vertical load of 440 lbs.; ±2° backlash; 1.5–2.5 in. mast; 35-74sec. 360° rotation; Optional GS-232B interface; Requires 5-wire cable. 7.5"dia. x 12.5" h; 7.5 lbs. **\$429.99**

G-800SA – High performance for medium-duty applications. Total rotational range 450°, no presets; 17 sq. ft. wind load; K-factor of 1299 ft. lbs.; 288 ft. lbs. of stationary torque; 43-79 ft. lbs. rotation torque, rotation speed/torque vary with the speed control setting; Max. vertical load of 440 lbs.; ±2° backlash; 1.5–2.5 in. mast size; 44 second 360° rotation; Quick-disconnect plug; Requires 5-wire cable. Dim: 7.5"dia. x 12.5" h; 7.5 lbs. **\$339.99**

ACCESSORIES

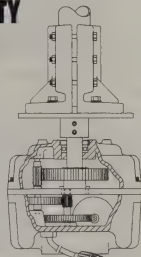
GC-038 – Mast clamp..... **\$39.99**
GC-048 – Mast clamp for G-2800DXA..... **49.99**
GS-050 – 50mm thrust bearing (1.25"–2") **39.99**
GS-065 – 65mm thrust bearing (1.5"–2.5") **54.99**
GS-232B – Interface for DXA rotators.... **589.99**
C-1000 – GS-232B cable for SDX's/S500... **34.99**
GS-680U – Universal, self adjust. bearing **109.99**
SEP KIT Separation kit for G-5500 **29.99**

K-factor: Multiply antenna turning radius x weight; add K-factors for each antenna

SUPER DUTY Rotator

OR-2800PDC Rotator

The most powerful and reliable. Rotates multiple HF antennas or large VHF or UHF arrays with ease. The control box provides manual features, plus heading preset, 10 programmable presets, programmable ramped start/stop with 1/2-degree target accuracy. Features: RS-232 port for computer control; Precision worm-gear drive, not reversible by mast torque; Non-slip, ductile iron mast clamps; Large drive plate for masts up to 3 in. dia.; Heat-treated steel gear train, hardened driveshaft; Prop-pitch style torque plate; Fits inside most popular towers and mates to standard towers and rotator plates; Motor-mounted digital pulse switch for accurate, closed loop control and heading display. Specifications: 35 sq. ft. wind area; 1800 lbs. vertical load; 1.75–3.125 in. mast size; 55-270 second rotation speed; 28 to 42V DC motor 0.1/0.5 degree ravel resolution; 110/ 220V AC, 50/60Hz input; Requires two 4-wire runs of rotor cable. Dim: 5.75" h total, 9.75" h rotor; 42 lbs. **\$1598.99**



Channel Master

9521A Light Duty Rotator



Drive Unit: Handles small to medium-sized VHF/UHF Ham antennas and TV antennas. One-piece cast aluminum housing; Heavy-duty rotator motor, three wire control; Precision-cut gear system; Built-in steel thrust bearing; Wind-tested brake pad; Durable powder-coated finish.

Control Unit: Gives direct access via channel number or compass heading. Compatible with most remote controls. Separate infrared remote controller; 69 channel programmable memory; Auto-synchronization for accuracy..... **\$99.99**

ECG®

U-105 Light-duty Rotator

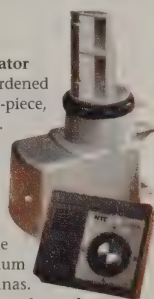
Long life, precision cut, hardened steel gears in a rugged, one-piece, cast aluminum housing. Large bearing surfaces and a reinforced mast for lateral load support. Ball bearings handle the vertical thrust load. Plenty of torque – easily handles the largest TV/FM and medium amateur VHF/UHF antennas. Built to take high winds and weather extremes with a water tight, lubricated seal. Smooth, quiet operation and the automatic control accurately shows direction..... **\$69.99**

Control Unit: 120 VAC input and 18 VAC output voltage via 3-wire cable to rotator. Dim: 7" w x 5.875" d x 2.375" h

Rotator Unit: 360° rotation in 70 seconds. Torque of 8 ft.-lbs.; 100 lb. max. vertical load; 1.125" to 2" O.D. support mast; 10 lbs.

U-106 Light-duty Rotator – Similar to U-105 but with Presets and Infrared remote .. **\$89.99**

TB-105 Thrust Bearing – For U-105/106 providing extra support and strength. Ball bearing design also relieves stress from varying wind loads on the rotator drive and bearing. **\$18.99**





Compact Mobile Antenna Tuner

VC-300M Mobile Tuner - Compact, lightweight for mobile or base. Tunes mobile whips, verticals, dipoles, inverted Vs, beams - anything fed by coaxial cable. Covers 1.8-30 MHz at 300W continuous power. The dual-movement Cross-Needle meter monitors RF power output and SWR.
Dim: 7.25" w x 3.5" h x 8.75" d; 2.5 lbs. **\$119.99**



Versatile 300 Watt Antenna Tuner

VC-300DLP - Matches any antenna. Full 1.8-30 MHz coverage and rated 300W PEP, 200W continuous power (150W on 1.8 MHz); Continuous rotation capacitors and 12-position switched inductor; Peak reading backlit Cross-Needle Meter; Built-in 8-position antenna switch and dummy load.
Dim: 10.25" w x 9.5" d x 3.5" h; 3.4 lbs. **\$159.99**
VC-300D - Similar to VC-300DLP, but has an added deluxe 21-segment LCD peak power indicator located above the ant. switch **C/O \$129.99**



High Power Roller Inductor Tuner

HFT-1500 Matches any antenna. Full 1.8 to 30 MHz coverage and rated 2KW PEP, 1KW continuous. Three continuously variable components: two 4.5kV capacitors and a crank driven roller inductor with digital turns counter; Lighted Cross-Needle SWR/Wattmeter and 20-segment Digital Bargraph; Built-in 6-position coaxial antenna switch and 4:1 balun.
Dim: 12-1/2" w x 5-1/2" h x 12" d; 10 lbs. **\$429.99**

Palomar Engineers

PT-340 Tuner-Tuner



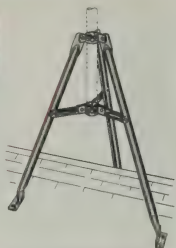
Eliminate QRM, overheated final tubes and devices by allowing adjustment for your station antenna tuner without transmitting. Installs permanently between rig and tuner. Just turn on, and listen to the noise output in a receiver, then adjust the station tuner controls for a dip in the noise (a null). Covers 1.7-30 MHz. Uses 9V battery. Dim: 6" w x 5" h x 3" d **\$99.99**

EASY-UP

ANTENNA TRIPODS



EZ 29-24S



**"the Solution for Mounting
Smaller Antennas"**
UPS SHIPPABLE

The use of a self-supporting antenna mount makes a neat and attractive installation. Easy-Ups are heavy-duty and self-supporting; made out of 1-1/4 in. tubular steel with triple corrosion protection inside and out. Double embossed collars with six locking screws hold masts up to 1-3/4 in. Fast, one-person installation, the legs extend to any rather spacing. Shipped completely assembled and includes a pitch pad kit and lag screws.

- EZ 48-3ABX** - 3 ft. high, 8.5 lbs. **\$39.99**
 - EZ 48-5ABX** - 5 ft. high, 12 lbs. **\$59.99**
 - EZ 5-16** - 5 ft. 16ga. steel mast* **\$12.99**
- *Pick-up only
- EZ 29-24S** Heavy-duty Double-strap Chimney Mount - Includes two "Y" type mounts and 24' of stainless steel strap **\$22.99**
 - EZ 30-24** - Deluxe Wall Mount w/3rd Leg. **\$29.99**
 - EZ 31** - Heavy Duty Adjustable Eave Mount **\$29.99**

MFJ Continuous Carrier™ Antenna Tuner

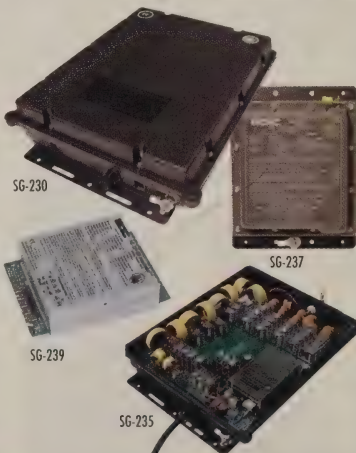
9982 - Handles 2500 Watts continuous output on all modes and all HF bands 1.8 to 30 MHz into most unbalanced antennas. Loaded with features: Wide matching range; 6-position antenna switch; New 4-core balun; Balanced line feed-thru Insulator; 1500W air-cooled Dummy load; True peak/average lighted Cross-Needle SWR/Wattmeter; 6:1 reduction drives with detailed logging scales; 3-digit turns counter; Extra large knobs and fast tune crank. Uses a roller inductor edge wound from thick .06-inch silver-plated solid copper strap with dual silver-plated compression wheels. The high-current, high-capacitance 1000 pF and 500 pF air variable capacitors give very high efficiency on 160/80M and extremely wide matching range on 10/12/15M at 2500 Watts. Dim: 13.75" w x 7" h x 16" d; 15 lbs. **\$649.99**

Stop tuning, Start talking!

SGC SMARTUNER® Automatic Antenna Couplers

SGC Smartuners™ Deliver greater impedance matching, more tuning steps and more antenna choices than any other antenna coupler on the market. Get frequency agility and precision tuning. They are independently intelligent, matching ANY HF transceiver and ANY antenna. Smartuners are microprocessor controlled; analyzing the conditions of your antenna and automatically adjusting for the best match. They also remember each match, cutting retuning time to under 10 milliseconds when changing frequencies. Smartuners are available for power levels from 1.5 to 500 Watts and frequency ranges from 1.8 to 60 MHz. They provide all purpose tuning ideal for base, mobile, portable, marine or aviation. Any budget, any installation.

- 54-14** SG-230 Original Smartuner™ - 1.8-30 MHz; 200W. 16.2" l x 12.2" w x 3.2" h; 8 lbs. **\$499.99**
- 54-15** SG-235 High Power - 1.8 to 30 MHz; 500W; 16.2" l x 12.2" w x 3.2" h; 8 lbs. **\$1169.99**
- 54-18** SG-237 General Purpose Smartuner™ - 1.8 to 60 MHz; 100W; 9" l x 7" w x 1.5" h; 2 lbs **\$299.99**
- 54-22** SG-239 Budget Smartuner™ - 1.8 to 30 MHz; 200W; 7.5" l x 6" w x 1.9" h; 2 lbs **\$195.99**



54-25 MAC-200 Master Antenna Controller Select the right antenna, for the right band, at the right time with the MAC-200. The Master Antenna Controller operates as your base station control center, eliminating complicated switching and tuning. With two built-in computers, the MAC-200 can select and tune up to 5 antennas automatically, quickly and accurately. Built-in memories fine tune to minimum SWR with any balanced or unbalanced antenna. It instantly recalls settings from memory, allowing retuning in less than 10 milliseconds. Monitor your power and SWR with convenient meters on the front panel. Using SGC's well-known Smartuner™ technology, the MAC-200 is the perfect choice for anyone using multiple antennas in a base station system. 1.8-60 MHz; 1.5-200W; 168 memories; PI configuration; 230mA average current; < 2 second random set time. Dim 8.5" l x 6.5" w x 3" h; 5 lbs. **\$265.99**



with any balanced or unbalanced antenna. It instantly recalls settings from memory, allowing retuning in less than 10 milliseconds. Monitor your power and SWR with convenient meters on the front panel. Using SGC's well-known Smartuner™ technology, the MAC-200 is the perfect choice for anyone using multiple antennas in a base station system. 1.8-60 MHz; 1.5-200W; 168 memories; PI configuration; 230mA average current; < 2 second random set time. Dim 8.5" l x 6.5" w x 3" h; 5 lbs. **\$265.99**



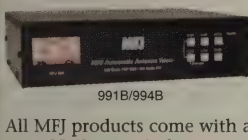
902



989D



993B



991B/994B

All MFJ products come with a **No Matter What™** One-year Limited Warranty. Not including kits, books or software.

MFJ...
the World Leader in
Amateur Radio Accessories

- 902 Tiny Travel Tuner** – Only 4.5" w x 2.25" h x 3" d, but rated for 150W. Tunes nearly any coax-fed or random length wire antenna for 80-10M. Perfect for "take along" rigs like IC-706MKII-G, FT-100D, TS-50S, QRP rigs and others with built-in SWR meter **\$89.99**
- 945E Mobile Tuner** – Covers 1.8-30 MHz plus 6M and rated at 300W PEP. Matches coaxial cable only. Extends mobile antenna bandwidth and eliminates having to stop and adjust the whip length when making frequency changes. Lighted cross-needle SWR bridge and power meter with 50/300 & 5/30W ranges. Dim: 8" w x 2" h x 6" d. **\$109.99**
- 941E Versa Tuner II** – Covers 1.8-30 MHz and rated at 300W PEP. *Matches everything!* – coaxial fed dipoles, vees, whips, verticals, beams, random wires, balanced lines. Built-in 4:1 balun. Lighted cross-needle SWR/power meter with 300/50W and 30/5W ranges. 8-position antenna selector for 2 coax lines, random wire or balanced line or an optional ext. dummy load. Dim: 10.625" w x 2.875" h x 7" d **\$119.99**
- 934 Antenna Tuner/Artificial Ground** – Makes a random wire an effective antenna. Combines best features of 941E and 931 into one. Full-featured 1.8-30 MHz, 300W tuner with cross-needle meter and ground matching knob that lets you switch in inductance to bring an attached random length wire to a low impedance current point, forming an artificial ground. Dim: 10.625" w x 3.5" h x 7" d **\$189.99**
- 948** – All the features of the 941E except it has a larger lighted peak reading cross-needle SWR/power meter **\$139.99**
- 949E Deluxe Versa Tuner II** – Same power, tuning and switching capability as the 941E with a larger, lighted peak or average reading cross-needle SWR/wattmeter. *PreTune™* allows off-air tune-up into a built-in dummy load. Dim: 10.625" w x 2.875" h x 7" d **\$159.99**
- 969 Deluxe Versa Tuner II** – Covers 160-6M and rated at 300W. Features a roller inductor coil with a spinner knob and 3-digit turns counter. Lighted peak/average reading cross-needle SWR/wattmeter with 30/300W ranges. Tunes coaxial cable, random wire or balanced feedline, has a built-in 4:1 balun. QRM-Free *PreTune™* allows off-air tune-up into a built-in 300W dummy load. Convenient 8-position antenna selector switch. Dim: 10.5" w x 3.875" h x 9.5" d **\$189.99**
- 962D Versa Tuner III** – Covers 1.8-30 MHz and rated at 1.5KW PEP. Matches coaxial fed antennas, random or balanced line. Has built-in 4:1 balun and roller inductor. Lighted peak/average cross-needle SWR/wattmeter with 200/2000W ranges. 6-position selector for 2 coax lines (direct or thru). Dim: 10.5" w x 3.9" h x 15" d **\$259.99**
- 986 Differential-T Tuner™** – Covers 1.8-30 MHz, rated at 3KW PEP. Uses a broadband T-network with roller inductor and differential capacitor. Tunes most antennas using only two knobs. Lighted peak or average reading cross-needle SWR/wattmeter with 200/50W and 2000/500W ranges. Inductor spinner knob, 3-digit turns counter, 6-position antenna selector, external dummy load switch, 4:1 balun. Dim: 10.75" w x 4.5" h x 15" d **\$309.99**
- 989D Versa Tuner V** – Covers 1.8-30 MHz, rated at 1.5KW PEP with heavy-duty components. Matches nearly every type of antenna. Roller inductor with spinner knob and 3-digit turns counter. Lighted peak/average reading cross-needle SWR/wattmeter with 200/2000W ranges. Built-in 300W dummy load, heavy-duty 4:1 balun and 6-position antenna selector switch. Dim: 10.75" w x 4.5" h x 15" d. **\$329.99**
- 993B IntelliTuner™ 300W Auto Tuner** – Measures, calculates, then automatically tunes most balanced and unbalanced antennas. Cross-needle meter shows forward and reflected power and SWR. Digital LCD shows antenna selection, frequency, and more. 20,000 tuning memories for ultra-fast operation. Manual tuning possible without transmit. Includes 4:1 current balun. Matches 6 to 3200 ohms @ 150W CW/SSB (or 6 to 1600 ohms @ 300W). Audible SWR indicator; two-position antenna switch. Dim: 10" w x 2.75" h x 9" d **\$249.99**
- 991B IntelliTuner™ 150W Auto Tuner** – Similar to 993B, rated 150W SSB/100W CW. No digital LCD, audible SWR indicator, antenna switch or 4:1 current balun. Matches 6 to 3200 ohms **\$209.99**
- 994B IntelliTuner™ 600W Auto Tuner** – Rated 600W SSB or 300W CW. 10,000 memories. No digital LCD, audible SWR indicator, antenna switch or 4:1 current balun. Matches 12 to 800 ohms. Low power tuning with any external amp bypassed **\$339.99**

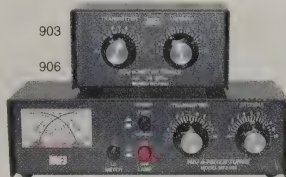


974HB



931

- 974HB Balanced Line Tuner** – Matches transceivers to virtually any balanced-line fed antenna. Illuminated Cross-needle meter shows both peak and average forward and reflected power, and SWR. Matching Range: 12-2000 ohms from 1.8-54 MHz. Power: 300W SSB PEP, 150W CW. Features a fully balanced wide range T-Network using four gear driven 1000V air variable capacitors and a high-Q air wound tapped inductor for 80-10 meters with separate inductors for 6 and 160 meters. A 1:1 current balun is incorporated in the low impedance input side to convert the balanced T-Network to unbalanced. Rear connectors for coaxial and single or two wire feedlines. Dim: 7.5" w x 6" h x 8" d **\$189.99**
- 974B Balanced Line Antenna Tuner** – Same as 974HB but 3.5-54 MHz (no 1.8 MHz) **\$169.99**
- 931 Artificial Ground** – Establishes a proper ground when used with random length wire antennas. It resonates an additional length of wire to act as a tuned counterpoise. Easier tuning, improved efficiency and radiation pattern, and reduced TVI/RFI. Covers 1.8-30 MHz and handles 100W. Dim: 7.5" w x 3.5" h x 7" d. Not for coax fed antennas ... **\$99.99**



903

906

- 906 6 Meter Antenna Tuner/Meter** – Low SWR with almost any 50-60 MHz coax fed antenna. Lighted Cross-Needle SWR/Wattmeter shows SWR, forward, reflected power on 300/60 and 30/6W ranges. Handles 100W CW, 200W SSB PEP. Built-in bypass switch. Dim: 8" w x 2.5" h x 3" d **\$89.99**
- 903 6 Meter Antenna Tuner** – Similar to 906. Less meter and bypass switch **\$59.99**



- 921 144/220 MHz Antenna Tuner/Meter** – Dual band VHF tuner covers 2M/220MHz and matches a coax fed antennas over a wide range of impedances. Lighted SWR/Wattmeter measures SWR and power in two ranges; 300 or 30W. Rated at 200W. Dim: 8" w x 2.5" h x 3" d **\$79.99**
- 924 440 MHz Antenna Tuner/Meter** – Similar to 921 but 440 MHz band only **\$79.99**



910

914

- 910 Mobile Antenna Matcher** – Get more power into your HF antenna. Matches HF mobile antennas 80-10M. Dim: 2.5" w x 2.5" h x 1.5" d **\$24.99**
- 914 Auto Tuner Extender** – Transforms your antenna impedance by as much as 10 times! Puts any antenna into the range of your automatic or manual tuner. Covers 160-10 Meters, handles 300W, has bypass position **\$69.99**

Price Guide
Used / Demo
Ham Radios
Accessories
Antenna
Accessories
Publications
Other
Radios
Weather
& GPS
Audio / Video
& Tools
AES
Information

Automatic Antenna Tuners



Z-11Pro Automatic Antenna Tuner
The Return of a Legend!

The original portable Z-11 was one of LDG's most popular tuners, accompanying adventurous hams to their backyards or to the ends of the earth. Now meet the Z-11Pro, everything you always wanted in a small, portable tuner designed from the ground up for battery operation.

Only 5 x 7.7 x 1.5 in., and weighing only 1.5 pounds, it handles 0.1 to 125 watts, making it ideal for both QRP and standard 100 watt transceivers from 160 - 6 meters.

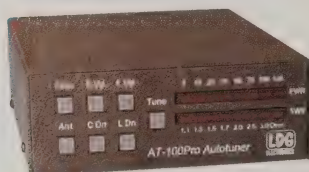
With 8,000 memories in LDG's exclusive "3-D Memory" array, the Z-11Pro uses LDG's state-of-the-art processor-controlled Switched-L tuning network. It will match dipoles, verticals, inverted-Vs or virtually any coax-fed antenna. With an optional LDG balun, it will also match long wires or antennas fed with ladder-line **\$179.99**



AT-200Pro Automatic Antenna Tuner
The first auto tuner specifically designed for today's 200W Class transceivers.

The AT-200Pro features LDG's new "3-D memory system" allowing up to eight antenna settings to be stored for each frequency. Handles up to 250W SSB or CW on 1.8 to 30 MHz, and 100W on 6M.

Rugged and easy-to-read LED bar graphs show power and SWR, and a function key on the front panel allows you to access data such as mode and status. Dim: 8.5" w x 2.0" h x 6" d; 6 lbs **\$229.99**



AT-100Pro Automatic Antenna Tuner
An Automatic Tuner Evolution!

This desktop tuner covers all frequencies from 1.8 to 54 MHz (including 6 meters), and will automatically match your antenna in no time. It features a two-position antenna switch, allowing you to switch instantly between two antennas. The AT-100Pro requires just 1W for full operation, but will handle up to 125W. The AT-100Pro includes over 2,000 memories for each antenna, automatically storing the tuning configurations for each frequency and band as you use them.

Dim: 7.5" w x 5.5" h x 2.0" d; 1.5 lbs **\$199.99**

LDG ELECTRONICS



AT-200PC Automatic Antenna Tuner
The First automatic Tuner Designed Specifically for PC Rig Control

Now you can have a state-of-the-art high performance automatic tuner and still run your whole station right from your keyboard and mouse!

LDG's AT-200PC is a special version of the popular AT-200Pro, designed for PC control. All of its functions are controlled entirely by a program running on your PC. The tuner itself can be installed out of the way, on the floor or even in another room, interfacing with your PC via serial or USB cable. Dim: 8.5" w x 2.0" h x 6" d; 6 lbs..... **\$239.99**



The Hottest Radio in the Industry!
Now with it's Own LDG Autotuner!

AT-7000 - the ideal tuner for the IC-7000 and other ICOM Radios. It covers all frequencies from 1.8-54 MHz (including 6 meters), and will automatically match your antenna in a flash.

Requires just 0.1W for operation, but will handle up to 125W (100W on 6 meters), making it suitable for everything from QRP (IC-703PLUS) to a typical 100W ICOM transceiver.

Tune with the AT-7000 or use your radio. Includes over 2,000 memories, uses latching relays, tuning range is 4-800 ohms, powered by your radio. Includes ICOM interface cable. Note: The IC-7000 shown on top of the AT-7000 is not included. Dim: 16.5" w x 1.5" h x 6.5" d; 1.5 lbs **\$169.99**



At LDG Electronics we have always been the innovators in the automatic tuner industry. We built the first desktop switched-L tuner, the first automatic tuner for QRP radios, the first automatic tuner with remote control head, and the first automatic tuner with 3-D memories. We were the first manufacturer with a two year warranty on all of our products.

We are now including all of the necessary interface cables with every tuner we sell. No more getting ready to use your tuner and not having the right interface - everything you need is included in the box!

No Questions Asked! - Every LDG product comes with our industry leading two-year Warranty. Just contact us to let us know your problem and we will repair or replace the product - No Questions Asked!



AT-1000 Automatic Antenna Tuner
The Autotuner that can handle your RF Power Amplifier!

No more knob spinning or inductor rolling. Turn your antenna in only 1 to 8 seconds when you QSY either in the same band or to a different band! Easy installation and use make this the choice for any Amateur Radio Operator with an amplifier.

Power rating HF (1.8 to 30 MHz): 1000W Single Side Band, 750W CW, 500W Digital (RTTY, Packet, etc.) including 6 meters (100W).

Just about any antenna can be tuned with the AT-1000. However, the antenna must be between 6 to 800 ohms (approximately 10:1 SWR) in order to bring the SWR down to 1.5:1.

Dim: 13" w x 3" h x 9" d; 6 lbs..... **\$549.99**



Z-100 Automatic Antenna Tuner
Small, Lightweight, Low Cost Automatic Antenna Tuner!

Designed from the ground up to provide the 100W power handling you asked for in a small, lightweight package, perfect for portable as well as sitting on your desk in the shack!

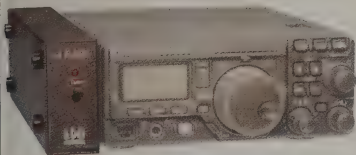
The Z-100 will tune with 0.1 to 125W (50W on 6 meters), making it an excellent choice for almost any radio or operating style. Backpackers and QRP operators will appreciate the latching relays. Power can be removed from the tuner once you have tuned. Additionally, when the tuner is not tuning it draws nearly zero amps.

Additionally, the Z-100 features 200 fast memories which will decrease tuning time up to 95%!
Dim: 5.5" w x 1.5" h x 5.25" d; 14 oz..... **\$149.99**

All necessary interface cables are now included with every LDG tuner

For more Information or to download a Manual go to LDG's web site
www.ldgelectronics.com

Accessories



AT-897 Automatic Antenna Tuner
Added Versatility!

If you own a Yaesu FT-897 and want a broad range automatic antenna tuner, look no further! The AT-897 mounts on the side of your FT-897 just like the original equipment. We even added the ability to mount the "feet" on the side of the tuner so when you are traveling your rig by the handle, you can safely set it down without scratching the case. The AT-897 takes power directly from the CAT port of the FT-897 and provides a second CAT port on the back of the tuner so if you are using another CAT device, hooking it up couldn't be easier.

Dim: 1.5" w x 3.25" h x 11.5" d; 2 lbs **\$199.99**

RBA Baluns - Allows you to connect long wires and antennas fed with ladder line to your LDG tuner. Two versions are available: The RBA-4:1 provides a 4:1 impedance transformation while the RBA-1:1 has a 52 ohm input and output. Rated at 200W. Dim: 2.5" w x 5" h x 1.25" d.

RBA-1:1 Remote 1:1 Balun **\$30.99**

RBA-4:1 Remote 4:1 Balun **30.99**



"The Forward Power is 112 Watts"

The "Talking Watt Meter"
Ideal for the Vision-impaired!

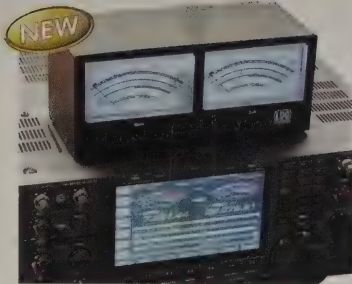
TW-1 Talking Wattmeter - Covers 1.8-54 MHz and rated for 2000W PEP. At the press of a button, the TW-1 announces the Forward Power, Reverse Power or SWR levels using a digitally recorded voice in English, Spanish or German. Includes Tone Modes; one for SWR tuning, and one for Power tuning which makes it simple to tune an external tuner or amplifier by listening to the pitch change of a constant tone. Built-in speaker. Dual rear mounted SO-239 connectors. Requires 12V DC @ 200 mA. Dim: 4.5" w x 3" h x 5" d; 1 lb **\$149.99**

TW-2 UHF/VHF Talking Wattmeter - Same as TW-1, but covers 6M, 2M and 440 MHz bands and rated for 250W PEP **\$149.99**



MULTI-DC 12VDC Distribution Box
Solves your Power Problems!

One input cable, and six output cables, each 3 ft. long distribute up to a total of 3 Amps of DC power to your LDG products. Six outputs, organized in three groups of two. Pairs are regulated to 12VDC, thermal protected and short-limited. A short circuit shuts down the regulator and turns off just that output. Dim: 6.5" w x 2.5" h x 2.5" d; 1 lb **\$49.99**



DM-7800 Dual Meter System
for ICOM's IC-7800
Gives You a Metering Choice!

The advanced virtual LCD meters on ICOM's IC-7800 transceiver do a great job, but sometimes a real analog meter is desired.

LDG's DM-7800 Dual Meter system provides two 4.5 in. meters, one for the MAIN receiver and one for the SUB receiver. Seven individual scales indicate S-Meter, Id, Po, SWR, Comp, Vd and ALC. The IC-7800 menu lets you select functions for each meter. Additionally, the DM-7800 and the virtual meters on the radio can work together. For example, you can display SWR on the radio's meter and power output on the DM-7800; on receive, the S-meter reading is indicated.

The lush meter faces are back-illuminated LED in cool, high-visibility blue and draw only 20 to 60 mA depending on the brightness setting. Requires an external 12V DC @ 100 mA source (not supplied). There are separate calibration adjustments for MAIN and SUB, and a brightness control on the back. The textured gray case is a great match for the IC-7800. Includes a 3 ft. long interconnecting cable. Dim: 9.7" w x 4.0" h x 4.0" d; 1 lb **\$179.99**



FT-METER Multi-Function Meter for
Yaesu's FT-857 & FT-897
New, Improved!

Yaesu's FT-857 and FT-897 are wonders of compactness. These do anything, go anywhere transceivers are being used more and more and users really appreciate LDG's extra metering capability.

The new FT-Meter presents a highly readable 2.5 inch meter face with calibrated scales for Signal strength and Discriminator reading on receive, and Power output, SWR, Modulation, ALC action and Supply voltage on transmit. LED back-illuminated in cool, high-visibility blue, easily visible from anywhere on your desk or dash. For illumination it requires an external 12V DC source. On the back it has an on/off switch for the light and calibration and brightness adjustments. Fully assembled and ready to plug into the radio.

Dim: 3.5" w x 3" h x 2" d; 0.5 lbs **\$49.99**

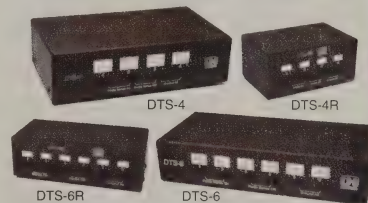


RCA-14 Transceiver Breakout Box
Your Cable Problems - Solved!

The RCA-14 is a breakout box for the accessory jacks on most popular transceivers. It comes with cables with the right DIN plugs, and all the outputs are standard RCA jacks. You simply plug the RCA-14 into your radio's accessory jacks, and all your ports are right there at your fingertips; just plug and play, one function or all or them, makes no difference. And, you can change things around as often as you like; it's as simple as swapping out an RCA plug.

The RCA-14 comes with a DIN-13 cable, a mini DIN-6 and a mini DIN-8. The DIN-13 cable breaks out the functions to RCA jacks 1-13, while the mini DIN-8 goes to RCA 1-6, and the mini DIN-8 goes to RCA 7-14. You can use the DIN-13 or the mini DIN-6 and/or 8, depending on your radio.

The RCA-14 is compatible with: ICOM 703, 706, 718, 746, 756, 7000 and 7800; YAESU 817, 857, 897 and 840; KENWOOD 480, 570, 2000; TEN-TEC Orion. Includes 5 interface cables for the most popular radios. Dim: 6.5" w x 3" d x 3" d; 1 lb. **\$59.99**



The DTS-Series Antenna Switches
Shack Convenience and Safety

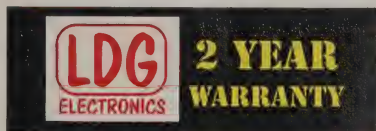
Tired of that tangled mess of coax and pigtailed in your shack? Always worrying about whether you set the ground switch on your antenna before you left your shack? LDG's new DTS Series antenna switches are for you. Instantly switch your rig between 4 to 6 antennas with the press of a button. Safety features prevent "hot switching." Auto-grounding when you shut your rig down. Purchase the additional remote control and put the DTS series switch anywhere indoors and operate it from your desk. They cover 1.8-54 MHz and handle up to 1500W of RF power on HF (250W on 6M), and can be used with any coax-fed antenna. Requires 11-15VDC.

DTS-4 4-position, Dim: 4.5" w x 3" h x 5" d; 1 lb **\$79.99**

DTS-4R Remote control for DTS-4 **\$39.99**

DTS-6 6-position, Dim: 9.5" w x 2" h x 4.5" d; 1 lb **\$99.99**

DTS-6R Remote Control for DTS-6 **\$49.99**



(AES) LDG Headquarters



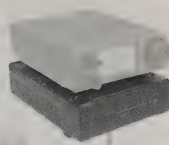
We accept I.M.P.A.C.® Government Credit Cards



LDG Automatic Antenna Tuner
Meters - Accessories

101

ICOM® Antenna Tuners



AT-180



AH-4



AH-2B

AH-4 Automatic Antenna Tuner – Covers 3.5–54 MHz using a 23 ft. or longer wire, or 7–54 MHz with optional AH-2B Antenna Element. Weather-resistant construction enables operation in all conditions. Rated 120W PEP, requires only 5–15W for tuning. For use with ICOM HF transceivers – just push the [TUNER] switch and it tunes to minimum SWR in less than 2.5 seconds. 45 memories store settings to provide one-second retuning. Supplied with mounting kit, 16 ft. control and coaxial cables. 13.8 VDC. Dim: 6.7" w x 2.7" h x 9" d **\$259.99**

AT-180 Automatic Antenna Tuner – Provides reliable coax matching from 1.9–54 MHz over an impedance range of 16.7–150Ω (HF) and 20–125Ω (50 MHz). 70 channel preset memories and "automatic tuner on" function when with the IC-7000, IC-703/IC-706 series or IC-718. Rated at 120W and requires about 8W to activate. 13.8 VDC. Dim: 6.5" w x 2.3" h x 8.9" d; 5.3 lbs **\$369.99**

AH-2B Antenna Whip – Covers 7–54 MHz when used with the AH-4 tuner. Includes hardware for mounting to a tow bar, 8.2 ft. long **\$349.99**

AMERITRON



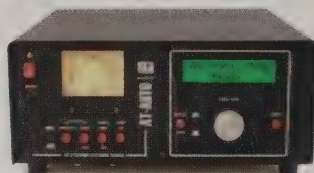
True Legal Limit Antenna Tuner

ATR-30 True Legal Limit™ Antenna Tuner Covers 1.8–30 MHz, including MARS and WARC. Designed for sustained RF output over 1500W CW and 3000W SSB, also 160M. Uses High-Q, high-current, edge-wound, arc-free roller inductor with heavy duty 500pf capacitor in T-match network. Matches most antennas using either coax or balanced feedlines. Illuminated Cross-needle, peak-reading 300/3000W SWR/ Wattmeter. Includes: 3-core choke balun; 6-position antenna switch; 6:1 vernier reduction drives, crank with turns counter. Requires 12VDC or internal 9V battery. Dim: 13.25" w x 5.6" h x 17.5" d **\$559.99**

ATR-20 Antenna Tuner – Looks and features same as ATR-30, but lower power rating. Handles 1.2KW PEP SSB; slightly less on 160 Meters. Dim: 13.5" w x 5.5" h x 13.5" d **\$429.99**

PALSTAR

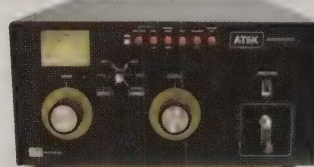
"BUILT LIKE A TANK" - KOCWO



AT-AUTO Automatic Antenna Tuner

- 50-1500 W single tone continuous
- wide Z range on 160m - 10m & 10m - 15m
- tuning time 1-30 seconds
- Serial port for field upgradeable software
- custom large plate capacitor at 5kV
- Peak and Peak Hold cross needle metering

\$1295.99



AT-5K 3500W Antenna Tuner

- 160m - 15m limited Z range on 10m
- balanced output w. 5 kW balun
- 600pf variable capacitor at 6 kV
- 10 Amp 7 kV ceramic roller inductor
- silver plated wheel shaft & hardware
- Peak and Peak Hold cross needle metering

\$1195.99



AT-1500DT 1500W PEP Antenna Tuner

- wide Z range on 160m - 20m & 10m to 15m
- ferrite 4:1 balun
- differential capacitor tuning (385pf @ 5 kV)
- Palstar designed ceramic body roller inductor
- silver plated wheel shaft & hardware
- Peak and Peak Hold cross needle metering

\$479.99

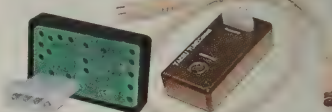


AT-1KM 1200W PEP Antenna Tuner

- wide Z range on 160m - 20m & 10m to 15m
- ferrite 4:1 balun
- 430pf differential capacitor at 3.5 kV
- 7 Amp 5 kV ceramic roller inductor
- silver plated wheel shaft & hardware
- cross needle metering

\$399.99

The Better RF Company



706 TUNE CONT

YAE TUNE CONT

706 TUNE CONT Tune up Control for IC-706/718 – Plugs into Molex connector on rear of radio. Converts radio's TUNER/CALL button function to TUNE MODE which limits RF output to 8-10W and produces a sidetone through the speaker. When finished, it reverts back to previous mode and power. No need to switch to AM or RTTY or hold the PTT. Works 160-6M, except not 6M with original IC-706..... **\$32.99**

YAE TUNE CONT Tune up Control for Yaesu FT-100, FT-857 and FT-897 – Makes the radio's TUNE button function to provide a low power output for tuning, adjusting an antenna, checking SWR, etc., in any mode. Interface cable included. No radio modification. Provides an interface between your YAESU transceiver and ICOM type accessories such as ICOM antenna tuners, tuners from other manufacturers and screwdriver antenna controllers **\$44.99**

W4RT
Electronics



MOTORIZED ANTENNA CONTROLLERS

Antenna BOSS – For Yaesu Radios. Makes essentially any motorized antenna "look like" an ATAS-100/120 to the FT-100/D, 847, 857, & 897 radios, allowing use of the radio's TUNE button for automatic tuning (6 to 40 meters). Works with 6-12 VDC motors drawing <750 mA, no special sensors in antenna required, no programming or computer required. BOSS works to full legal limit as well as with antennas having a shunt coil. The radio powers both the antenna motor and the BOSS..... **\$149.99**

Antenna BOSS II – For Icom, Yaesu, & Kenwood Radios. Antenna BOSS II allows essentially any 6 to 160 meter motorized antenna to interface with Icom radios that work with the AH-4 tuner such as the IC-706, MKII, MKIIG, and 7000. Works with 1 VDC motors drawing <750 mA running, no special sensors in antenna required, and no programming or computer required. Works with radio's TUNE button. The BOSS II measures frequency and SWR. Advanced algorithms provide excellent auto-resonating (tuning) and mitigate motor overshoot by using dynamic braking and reducing motor speed during final antenna adjustment. Includes cable for connection to the IC-706 series radios..... **\$149.99**

**Our service is
second to none.**

**Give us a call or email us at
info@aesham.com with your
inquiries.**





259B/269 Accessories



- 29C Carrying Case** – Tote your 259B anywhere with this custom carrying case. Wear it around your waist, over your shoulder, or clip it onto the tower while you work. Has back pocket for carrying dip coils and coax adapters. Special foam filled fabric cushions protects from wear **\$24.99**
- 39C Carrying Case** – Fits the 269 **\$24.99**
- 66 Dip Meter Adapter** – For grid dip operation. Set of two plug-in coils, covers 1.8-170 MHz ... **\$24.99**
- 29C Accessory Pack** – Includes 39C case, 66 dip adapter and 1312D AC adapter **\$60.99**
- 39C Accessory Pack** – Includes 29C case, 66 dip coils and 1312D AC adapter **\$60.99**
- 29B Accessory Pack** – Includes 10 "AA" NiMH batteries, 29C case, 66 dip coils and AC adapter **\$88.99**
- 39C Accessory Pack** – Includes 10 "AA" NiMH batteries and 1312D AC adapter **\$40.99**
- 731 Tunable Measurement Filter** – Use with 259B or 269 for measurements in the 1.8-30 MHz range while in the presence of strong RF fields from nearby broadcast stations or other RF sources. **\$89.99**

MFJ SWR Analyzers

Make sure your antenna giving you top performance by using a MFJ SWR Analyzer. The 259B and 269 are complete Ham radio test stations, including: a Frequency Counter, RF signal generator, SWR Analyzer, RF Resistance and Reactance Analyzer, Coax Analyzer, Capacitance and Inductance Meter & more.

You will no longer have to drag your rig (RF source) out into the yard. No more running in and out of the house or up and down the tower to make readings and adjustments. MFJ analyzers are self-contained and fully portable units, with built-in battery power and RF source so you can take it right to the antenna. Take one reading to get a complete picture of your antenna, and make tuning adjustments on the spot.

Operation is simple, just connect the feed line, set the bandswitch and tune the dial. All information is clearly displayed instantly on the large, easy-to-read, two-line LCD screen and side-by-side meters.

When tuning transmission lines or making up phasing harnesses for stacking antennas, you can quickly determine exact 1/4 or 1/2 wavelengths. You can also determine the velocity factor, coax cable loss, length of coax and distance to a short or open in coaxial cable.

Read SWR, return loss and reflection coefficient at any frequency simultaneously, or inductance and capacitance at RF frequencies at a glance.

The 259B and 269 operate on 110V with the 1312D adapter (\$15.99) or on 10 AA Alkaline or Ni-Cad/Ni-MH rechargeable internal batteries, not included. For rechargeables, there is a built-in charger circuit that requires external 12VDC or MFJ-1312D. All metal cabinet. Dim: 6-3/4" h x 4" w x 2" d. The 259B has an SO-239 connector, the 269 has a type-N and is supplied with a type-N to SO-239 adapter.

259B SWR Analyzer – Covers 1.8-170 MHz **\$259.99**

269 SWR Analyzer – Looks nearly identical to, and has all the features of the 259B plus it covers 1.8-170 and 415-470 MHz. Built-in CoaxCalculator™ calculates coax length in feet given coax length in electrical degrees and vice versa, and any velocity factor. Read Complex Impedance as series equivalent resistance and reactance (Rs+jXs) or as magnitude (Z) and phase (degrees). Also reads parallel equivalent resistance and reactance (Rp+jXp). Measure SWR and loss of coax with any characteristic impedance from 10 to over 600, including 50, 51, 52, 53, 73, 75, 93, 95, 300, 450 ohms. On the 415 to 470 MHz Range you can read SWR, return loss, reflection coefficient simultaneously, and cable loss in dB and match efficiency. Has LCD logarithmic SWR bargraph and SWR meter for quick tuning **\$339.99**

TIMEWAVE TECHNOLOGY INC. TZ-900

AntennaSmith™

Antenna Impedance Analyzer



TZ-900S with SO-239 connector... **\$1299.99** • **TZ-900N** with type-N connector ... **\$1299.99**



Palstar, Inc Antenna Analyzer

ZM-30 – An automated micro-controlled SWR antenna analyzer with an 8-bit controller and precision low power DDS signal generator. It also includes a self-calibrating reflectometer and displays SWR at selectable frequencies from 1 to 30 MHz. It measures: SWR, Impedance, Reactance, Inductors, Capacitors, Transmission lines, Stubs, Q, and Resonant frequency. There is a serial port for field upgradable software. Battery operation allows you to take it to the antenna. Durable, powder coated front panel. Dim: 3" w x 4" h x 2" d **\$399.99**



SWR Antenna Analyzers

103

MFJ SWR POWER METERS



- 864** – Covers 1.8–60 MHz, 144 MHz and 440 MHz bands. Dual sensors allow connection to an HF and VHF/UHF rig at the same time. Monitor SWR and power simultaneously on the lighted Cross-Needle meter. Ranges: 30/300W forward and 6/60W reflected. Requires 12VDC for meter illumination light. Dim: 7.25" w x 2.5" h x 2.25" d..... **\$89.99**
- 862** – Similar to the 864, but for 144, 220 & 440 MHz. Ranges: 30/300W forward and 6/60W reflected. Dim: 5.75" w x 2.5" h x 2.25" d..... **\$59.99**
- 860** – Similar to the 864, but covers 1.8 to 60 MHz. Ranges: 30/300W forward and 6/60W reflected. Dim: 4.5" w x 2.25" h x 3" d..... **\$49.99**



- 815C** – Simultaneously reads true peak or average power and SWR simultaneously on a large illuminated three-inch Cross-Needle meter. Covers 1.8–30 MHz with 300/3000W forward and 60/600W reflected power ranges. 50-239 connectors. Requires 12VDC. Dim: 6" w x 3.5" h x 4.5" d..... **\$89.99**
- 817C** – Similar to 815C but for 144/220/440 MHz with 300/30W forward and 60/6W reflected power ranges. Dim: 6" w x 3.5" h x 4.5" d..... **\$99.99**



- 812B** – Indicates forward and reflected power on 2M/220 MHz and SWR from 144–220 MHz, plus field-strength from 1–220 MHz. Power ranges: 30/300W. Dim: 4.5" w x 2.25" h x 3" d..... **\$39.99**
- 816** Toroidal Meter – Indicates forward and reflected power from 1.8–30 MHz. Power ranges: 30/300W. Dim: 4.5" w x 2.25" h x 3" d..... **\$39.99**
- 844** VHF/UHF SWR/Power Meter – Covers 144 and 440 MHz, rated up to 200W. Multi-colored meter shows SWR/POWER in 15, 60, and 200W ranges. Great to take along for portable, HT or mobile rigs. Dim: 3.75" w x 3" h x 1.25" d..... **\$79.99**



- 868** SWR Wattmeter – Large, 6-1/2 inches diagonally across the meter scale. Easy-to-read with big high contrast numbers. Covers 1.8–30 MHz indicating Peak or Average Forward and Reflected power and VSWR in 20/200/2000W ranges. Power saver circuit. Uses 9V battery, 12V DC or 110V AC with MFJ-1312D adapter (\$15.99). Dim: 7" w x 5.5" h x 5" d..... **\$139.99**

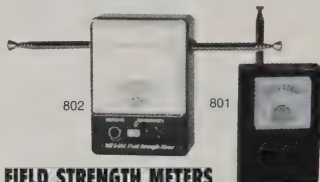
GrandMaster™ SWR/Wattmeters

Four models with different frequency and power ranges. Easy-to-read 3.25" w x 1.25" h illuminated meter shows peak and average, forward and reflected power in three ranges. Dim: 7.5" w x 3.125" h x 4.25" d.

- 870** (HF range) – 1.6 to 60 MHz.
Power ranges: 30/300/3000W + VSWR.... **\$129.99**
- 872** (HF/VHF range) – 1.8 to 200 MHz
Power ranges: 5/20/200W + VSWR..... **\$94.99**
- 873** (VHF/UHF range) – 125 to 525 MHz.
Power ranges: 5/20/200W + VSWR..... **\$114.99**
- 874** (HF/VHF/UHF range) – 1.8 to 525 MHz.
Power ranges: 5/20/200W + VSWR..... **\$169.99**

267 Precision SWR/Wattmeter with Dry Dummy Load

Usable 1.8 to 60 MHz. Large 3 in. Cross-Needle meter shows peak and average forward and reflected power and SWR. Power: 300/3000W forward, 60/600W reflected; SWR 1:1 to 8:1; Built-in 100W 50 ohm dummy load; Load to antenna switch; Uses 12VDC for the meter lamp or 120VAC with 1312D, or 9V battery. Dim: 4" w x 3.125" h x 10" d..... **\$159.99**



FIELD STRENGTH METERS

- 801** Super Compact Field Strength Meter – You can read relative field strength from your antenna, measure antenna performance and discover how strong your antenna field is. Its compact size fits in the palm of your hand. Telescopic whip included. Dim: 2.375" w x 3.625" h x 1" d..... **\$24.99**
- 802** Bipolar Field Strength Meter – Dual whips are included. Dim: 2.4" w x 4" h x 1.5" d..... **\$44.99**



ALAN BROADBAND ZAP CHECKER

Broadband Field Strength Bug Detector – A wideband 10 MHz to 4.5 GHz receiver that indicates the presence of RF energy. Detects 2.4 GHz bugs at 40 feet. Analog meter and LED display for viewing at a distance and at night. Silent vibrator mode for in-pocket detection and hands-free operation. Use for bug detection, wireless, aircraft maintenance, health/environmental and ham radio. Detects and measures cell phone radiation, microwave ovens, computer wireless devices, microwave data transmissions, covert surveillance cameras and bugs, radiating PCs and electronic games, and background radiation levels. Dim: 2.1" w x 1.25" h x 5" h; 5 oz. **ALA ZAP CHECKER \$89.99**

185 – Same as the ZAP CHECKER but is more sensitive than the original and covers approximately 3 MHz to 5.8 GHz. Also features an analog/digital switch..... **\$159.99**

MISC METERS & COUNTERS



224 2M FM Signal Analyzer™
Covers 143.5–148.5 MHz. Measures signal strength (60dB range), antenna gain, beamwidth, front-to-back ratio, sidelobe and feedline loss. Check and set FM deviation, plot field strength patterns, position antenna, measure preamp gain, tune transmitters and filters, analyze modulation wave forms, measure audio distortion, noise and peak deviation. Headphone jack. Dim: 4" w x 2.5" d x 6.75" h. **\$159.99**



852 Power Line Noise Meter
A sensitive AM receiver fixed-tuned in the 135 MHz range coupled with a directional telescopic dipole antenna located AC line and other noise fast. Antenna is balun isolated to give a clearly defined null for pin-pointing interference sources. Wide range level meter to view or plug in headphones to hear the noise, or use a tape recorder for later playback. Uses 9V battery. Dim: 2.8" w x 4" h x 1.5" d..... **\$109.99**

805 Pocket-Size RFI Detector

Track and eliminate RFI caused by radiating cables and wires. Simply clamp the top mounted current transformer over a suspected cable or wire (up to 1/4 inch diameter) to detect RFI causing common-mode currents. Useable from VLF to VHF. Uses 9V battery. Dim: 2.25" h x 4.75" h x 1" d..... **\$89.99**



854 RF Current Meter – The top-mounted sense coil snaps over wires, cables, etc. up to 1/2" diameter. Measures actual RF currents in antenna elements, ground wires, radials and outside of coax feedlines. Six ranges: 30mA to 3A; Accurate 1 to 30 mA; Range with variable sensitivity control; Auto-off, press-to-test circuit; All aluminum case and G-10 PC board. Dim: 2.5" w x 5.5" h x 1.5" d; 11 oz..... **\$109.99**



886 Pocket Frequency Counter
Covers 1 MHz to 3 GHz with direct 300 MHz count with 0.1 Hz resolution on a 10-digit, 3/4 in. LCD display. Ultra sensitive synchronous detector. RF Signal Strength LCD bargraph. Four selectable gate times give 0.1–10 Hz resolution in the 300 MHz range and 10–1000 Hz resolution in the 3 GHz range. Includes a rechargeable 6-hour Ni-Cd battery. Dim: 2.75" w x 3.25" d x 1.25" d..... **\$119.99**



888 Deluxe Frequency Counter
Measures frequency and period. Covers 10 Hz to 3 GHz with a 10-digit LCD and an ultra-sensitive synchronous detector with 16-second RF signal strength bargraph. A high-speed 300 MHz direct counter with 0.1 Hz resolution and four selectable gate speeds. Hi-Z low range; Auto-hold LED backlight; Beeper; Hold; Low battery indicator. Built-in 6-hour Ni-Cd battery pack. Complete with battery pack, charger, and telescopic whip. Dim: 2.75" w x 4.25" h x 1.25" d; 9 oz..... **\$189.99**



Elements also work in IRD meters!

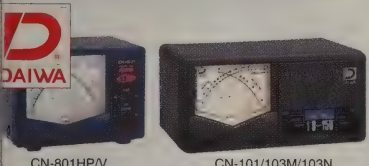
81000-A RF Directional Wattmeter - Gives accurate RF Power measurement in 50Ω coaxial systems. Uses an internal line section and "Quick Match" plug in elements in the range of 0.1-10,000 watts full scale, and from 0.45 to 2300 MHz.

Simply plug in the appropriate measuring element and select forward or reflected direction. Measured average RF power is indicated directly on the large 1.5" "taut-band" meter with three scale display. The meter is also mirrored and shock mounted to provide the most reliable and accurate readings.

Strong shock-proof housing. With SO-239 connectors (Type-N female Special Order)..... **\$289.99**

83000-A RF Peak Reading Wattmeter - Similar in appearance and operation to the standard Model 81000-A wattmeter. Contains an amplifier which allows measuring of both Average and Peak Envelope Power (PEP) with the flip of a switch. Internal 9V battery is required and supplied for peak reading mode..... **\$413.99**

See Price Guide for list of Plug-in Elements



CN-801HP/V CN-101/103M/103N

Cross Needle SWR/Power Meters

CN-101 - Covers 1.8-150 MHz, rated at 1500W from 1.8-60 MHz and up to 1000W at 144 MHz. Shows Forward/Reverse power and VSWR simultaneously. Three power ranges: 15/150/1500W (RMS or PEP); ±10% of full scale accuracy. SWR detection sensitivity: 4W minimum; 50Ω, SO-239 connectors. Dim: 6" w x 3" h x 3.9" d; 1.5 lbs..... **\$99.99**

CN-103M - Same as CN-101, but covers 140-525 MHz and rated at 200W. Two power ranges: 20/200W (RMS or PEP)..... **\$99.99**

CN-103N - CN-103M with N connectors **\$109.99**

Professional Series

The CN-801 series of Cross Needle meters feature the largest meter face, and the most accurate in the amateur line. Calibrated in .5W increments with 5W VSWR detection sensitivity and lighted. The 801HP reads true PEP. Dim: 6" w x 4" h x 4.5" d; 2.2 lbs

N-801HP - 1.8-200 MHz, 20/200/2kW **\$159.99**

N-801V - 140-525 MHz, 20/200W..... **\$154.99**

N-801SII - 900-2500 MHz, 2/20W/200mW, type-N..... **\$269.99**

DIAMOND ANTENNA



SWR/Power Meters

(left) Five models measure power and SWR with 5-10% of F.S. accuracy. Illuminated meter, sensor switch, LED indicator. Power ratings for intermittent operation. For continuous, ratings vary with frequency. SO-239 connectors on all except SX-1000 (type-N). Dim: 6" w x 2.5" h x 4" d; 2 lbs.

SX-100 - 1.6-60 MHz, 30/300/3kW PEP **\$134.99**

SX-200 - 1.8-200 MHz, 5/20/200W PEP **\$94.99**

SX-400 - 140-525 MHz, 5/20/200W PEP **\$114.99**

SX-600 - Dual band, 1.8-160 MHz and 140-525 MHz, 5/20/200W PEP ranges..... **\$169.99**

SX-1000 - Dual band, 1.8-160 MHz and 430-1300 MHz, 5/20/200W PEP ranges..... **\$214.99**

Cross-Needle SWR/Power Meters

(right) Indicate forward/reflected power and SWR simultaneously. 50Ω impedance, SO-239 connectors, 10% F.S. accuracy; 3.3" w x 3.4" h x 3.7" d; 9 oz.

SX-20C - 3.5-30/50-54 and 130-150 MHz ranges; 30/300W. Needs 5W minimum for VSWR. **\$89.99**

SX-40C - 144-470 MHz (220 MHz with correction factor); 15/150W (3W minimum power).... **\$79.99**



SWR-1 SWR/Field Strength - Range: 3.5-150 MHz; Z: 50-52Ω; SWR: 1:1-3:1; Accuracy: 5%; Meter sensitivity: 300uA; 5 in. RF pick-up antenna. Dim: 6" h x 2" w x 2.9" d; 14 oz..... **\$29.99**

SWR-3 SWR Meter - Range: 1.7-30 MHz; Imp: 52Ω; SWR: 1:1-3:1; Accuracy: 5%; Sensitivity: 300uA. Dim: 2.5" h x 3.5" w x 3" d; 6 oz..... **\$14.99**

VECTRONICS SWR/POWER METERS



PM-30HF - Range: 1.8 to 60 MHz. Displays peak and average forward and reflected power, and SWR simultaneously on a dual movement back-lit cross-needle meter. Power Ranges: 300 and 3000 Watts. SO-239 connectors. Dim: 5.3" w x 3.5" h x 5.75" d; 1.2 lbs..... **\$79.99**

PM-30UV - Same features as the PM-30HF, but covers 144/220/440 MHz bands. 30/300W ranges. SO-239 connectors..... **\$89.99**

DUMMY LOADS

Simulates an accurate 50 ohm antenna and allows testing or tuning a transmitter without radiating a signal on the air.

A must for every ham shack!



250/250X and **260C**

250 Versaload - A 50 ohm Oil-filled Dummy Load providing low VSWR up to 400 MHz. Rated at 1000W CW or 2000W PEP for 10 minutes. Good for 20 minutes at 50% power rating and continuous operation at 200W CW or 400W PEP. SO-239 connector. Dim: 7.3" h x 6.6" diameter. Supplied with high-quality oil..... **\$69.99**

250X - Same as above, but requires oil..... **\$49.99**

Dry Loads - A non-inductive 50 ohm resistor mounted in a metal housing, air cooled. Full rated load for 30 sec., derating curve to 5 min.

260C HF/VHF Range - Rated at 300W at 1:1 VSWR up to 30 MHz, 1.5:1 to 650 MHz. SO-239 connector. Dim: 2.5" w x 2.5" h x 7" d.... **\$39.99**

260CN - Has type "N" connector..... **\$49.99**

264 UHF, Wide Range - Good from 1.3 to 650 MHz and usable up to 750 MHz. Rated at 1500W for 10-seconds, 100W for 10-minutes. SO-239 connector. Dim: 3" w x 3" h x 9" d..... **\$74.99**

264N - Has type "N" connector..... **\$84.99**

267 SWR/Wattmeter with Dry Dummy Load - A built-in 100W 50 ohm dummy load with a 3 inch cross-needle meter shows peak and average forward and reflected power and SWR. Usable 1.8-60 MHz. Power: 300/3000W forward, 60/600W reflected Usable 1.8 to 60 MHz. Dim: 4" w x 3.125" h x 10" d..... **\$159.99**

AMERITRON

ADL-1500 Oil Cooled Dummy Load - Similar to MFJ-250, 1500W up to 30MHz..... **\$74.99**

ADL-2500 Dry Dummy Load - Similar to Vectronics DL-2500 below, 2500W up to 30 MHz, fan cooled..... **\$199.99**

VECTRONICS



DL-300M Dry Dummy Load - Power rated at 300W for 15 sec., to 100W for 40 sec. VSWR <1.3:1 at 150 MHz. Dim: 5" h x 2" d x 2.9" h; 8 oz. **\$49.99**

DL-650M Dry Dummy Load - Good all the way up to 650 MHz. Power handling curve is rated at 1500W for 10-seconds, down to 100W for 10 min. VSWR <1.3:1 at 500 MHz.. **\$79.99**

DL-2500 High-Power Dry Load - A fan cooled heavy-duty load for up to 150 MHz. Power handling curve rated at 2500W for 1 minute, down to 500W for 10 minutes..... **\$189.99**

Price Guide
Used / Demo

Ham Radios

Accessories

Antennas

Publications

Other

Weather & GPS

Audio / Video & Tools

AES Information

BELDEN
SENDING ALL THE RIGHT SIGNALS

See Belden in the Price Guide



Model	Type	Dia. (in.)	Center conductor	Insulation type	Shield coverage	Jacket type	Imp. (Ω)	Vel. factor	Loss/100' 100 MHz
8216	RG-174 Sub-miniature	.11	26 AWG bare copper coat steel	Solid polyethylene	90% tinned copper braid	Black PVC	50Ω	66%	8.4 dB
8219	RG-58A/U	.195	20 AWG stranded bare copper	Foam polyethylene	96% tinned copper braid	Black PVC	53.5Ω	73%	4.5 dB
8240	RG-58/U	.195	20 AWG solid bare copper	Solid polyethylene	95% tinned copper braid	Black PVC	51.5Ω	66%	3.8 dB
8259	RG-58A/U	.193	20 AWG stranded tinned copper	Solid polyethylene	95% tinned copper braid	Black PVC	50Ω	66%	5.4 dB
8262	RG-58C/U non-contaminating	.195	20 AWG stranded tinned copper	Solid polyethylene	95% tinned copper braid	Black non-contaminating PVC	50Ω	66%	5.4 dB
9258	RG-8X Mini-8	.242	16 AWG stranded bare copper	Foam polyethylene	95% bare copper braid	Black PVC	50Ω	82%	3.1 dB
8214	RG-8/U	.403	11 AWG stranded bare copper	Foam polyethylene	97% bare copper braid	Black PVC	50Ω	78%	1.7 dB
8237	RG-8/U	.405	13 AWG stranded bare copper	Solid polyethylene	97% bare copper braid	Black PVC	52Ω	66%	1.9 dB
8267	RG-213/U non-contaminating	.405	13 AWG stranded bare copper	Solid polyethylene	97% bare copper braid	Black non-contaminating PVC	50Ω	66%	2.1 dB
9913	Low loss semi-flexible RG-8/U	.405	10 AWG solid bare copper	Semi-solid polyethylene	100% bonded foil plus 90% tinned copper braid	Black PVC	50Ω	84%	1.3 dB
9913F7	Low loss flexible RG-8/U	.405	10 AWG stranded bare copper	Gas-injected foam polyethylene	100% bonded foil plus 90% tinned copper braid	Black Bellflex®	50Ω	84%	1.5 dB
8241	RG-59/U	.242	23 AWG solid bare copper	Solid polyethylene	95% bare copper braid	Black polyethylene	75Ω	66%	3.4 dB
8213	RG-11/U	.405	14 AWG solid bare copper	Gas-injected foam polyethylene	97% bare copper braid	Black polyethylene	75Ω	84%	1.3 dB
8238	RG-11/U	.405	18 AWG stranded tinned copper	Semi-foam polyethylene	97% bare copper braid	Black PVC	75Ω	66%	2.0 dB

ROTOR CABLE

8448 Standard duty, 8 wire – Up to 100 ft. runs. Six #22 and two #18 AWG tinned copper conductors. PVC insulation and PVC jacket.

9405 Heavy duty, 8 wire – Over 100 ft. runs. Six #18 and two #16 AWG tinned copper conductors. PVC insulation and PVC jacket.

8484 Standard duty, 4 wire – (4) #20 AWG tinned copper conductors. PVC insulation and PVC jacket.

PREASSEMBLED COAXIAL HOOK-UPS

9354 – 50' RG-8/U low-loss foam, PL-259s **\$96.99**

9355 – 75' RG-8/U low-loss foam, PL-259s **\$126.99**

9356 – 100' RG-8/U low-loss foam, PL-259s **\$146.99**

ANTENNA & GROUND WIRE

8000 – #14 AWG (7x22) stranded bare copper-covered steel antenna wire.

8018 – #8 AWG (solid) soft annealed aluminum ground wire – multiples of 50 ft.



TIMES MICROWAVE SYSTEMS

LMR-400 Low-Loss Flexible Coaxial Cable – The ideal replacement for RG-8/9913 air-dielectric cables. Flexible: Minimum bend radius of 1 in. is easier to handle compared to corrugated copper or smooth wall copper hard-line cables; Dielectric: High velocity gas-injected closed cell foam dielectric, 0.208 in.; RF Shielding: Bonded aluminum tape outer conductor, overlapped to provide 100% coverage and a 95% overall tinned copper braid. Lowest loss of any RG8/RG213 type cable; Inner Conductor: Solid BCCAL, 0.108 in.; Jacket: UV protected black polyethylene, 0.405 in.; Velocity Factor: 85%; Loss (100 ft.): 0.9dB @ 50MHz; 1.5dB @ 150MHz; 1.9dB @ 220MHz; 2.7dB @ 450 MHz, 3.9 dB @ 900 MHz, 6.0dB @ 2000 MHz..... per ft. **\$3.84**

LMR-400500 – 500 ft. roll of above **\$319.99**

LMR-400-DB Watertight Flexible Coaxial Cable – Same specifications as LMR-400 but incorporates an inert flooding compound that completely eliminates all paths of water migration and ingress for long term reliability (10 year warranty) per ft. **\$2.44**

LMR-400DB500 – 500 ft. roll of above **\$359.99**

LMR-400-UF ULTRA-FLEX Coaxial Cable – Has a stranded center conductor. Very flexible, best used on rotating antenna systems and for jumpers. Loss is 15% greater than LMR-400 per ft. **\$1.18**

LMR-400UF500 – 500 ft. roll of above **\$469.99**



ROTARY COAX CABLE STRIPPERS



For quick, clean prep of coaxial cable without damage. Insert coax, turn clockwise 4 or 5 times.

24-7735P – for RG-58, RG-59, RG-62 ... **\$23.99**

24-7736P – for RG-6, RG-59, 8281..... **\$22.99**

24-7739P – for RG-8, RG-11, RG-213..... **\$39.99**



READY-MADE COAX CABLE ASSEMBLIES

CXP1318FC

Connector: PL259 both ends.
Burial: Yes. UV Resistant: Yes.
Shields: 2 (100% bonded foil+95%TC Braid) **V/P 84%**
Attenuation @ 100ft: 150MHz 1.1, 150MHz 1.9, 450MHz 3.3
Recommended frequencies: 50-450MHz.

CXP008C

Connector: PL259 both ends.
Burial: No. UV Resistant: Yes.
Shields: 1 (95%BC Braid) **V/P 78%**
Attenuation @ 100ft: 10MHz 0.51, 30MHz 0.9, 50MHz 1.2
Recommended frequencies: 1-50MHz.

CXP1318FN

Connector: "N" Male both ends.
Burial: Yes. UV Resistant: Yes.
Shields: 2 (100% bonded foil+95%TC Braid) **V/P 84%**
Attenuation @ 100ft: 150MHz 1.1, 150MHz 1.9, 450MHz 3.3
Recommended frequencies: 150MHz & higher.

CXP08XC

Connector: PL259 both ends.
Burial: No. UV Resistant: Yes.
Shields: 1 (95%BC Braid) **V/P 78%**
Attenuation @ 100ft: 10MHz 0.51, 30MHz 0.9, 50MHz 1.2
Recommended frequencies: 1-30MHz.

CXP213C

Connector: PL259 both ends.
Burial: Yes. UV Resistant: Yes.
Shields: 1 (97%BC Braid) **V/P 66%**
Attenuation @ 100ft: 10MHz 0.62, 30MHz 1.2
Recommended frequencies: 1-30MHz(High Power).

BRAIDED GROUND STRAP

Sizes: 1/2" wide
or 1" wide



SILVER, TEFLON® CONNECTORS.

CABLE X-PERTS, INC.

Connecting You to the World...

See Price Guide for Cable X-perts pricing.



UHF CONNECTORS

General purpose and, with the use of optional reducing adapters, accommodate a wide range of applications. Rated for up to 300 MHz. Impedance is non-constant and voltage rating is 500V peak.

AMPHENOL

83-1SP-1050 - PL-259 Male coaxial connector
83-1SP - PL-259 silver-plated coax connector

CZL

401TS - PL-259; silver plated, Teflon®, gold pin

AMPHENOL

PL-259 Reducers
83-185-RFX - For RG-58
83-168-RFX - RG-59/8X

AMPHENOL

83-878 - UHF single hole bulkhead receptacle

AMPHENOL

83-1R - SO-239 UHF panel receptacle

SHAKESPEARE

PL-259CPG - PL-259; no strip, solderless male connector for RG-8X & RG-58/AU

SHAKESPEARE

PL-258CPG - No strip, solderless splice for RG-8X & RG-58/AU

TYPE-N CONNECTORS

Constant 50Ω impedance, excellent performance up to 11 GHz and 1,500V peak. Internal gaskets provide better weather resistance than the standard UHF type.

AMPHENOL

82-202-1006 - Type-N Male connector for 8214, 9913 & 9913F
34025 - Type-N Male connector for RG-58

CABLE X-PERTS

6633S - Two-piece, EZ-install Type-N connector for 9913/8214

AIM

26-8011 - Type-N chassis mount receptacle

AMPHENOL

82-24 - Type-N panel mount receptacle

BNC CONNECTORS

Miniature, lightweight connectors for RG-58/59 type coax. Quick disconnect bayonet coupling, small size and low cost. Rated for up to 4 GHz. Impedance is 50Ω nominal. Voltage rating is 500V peak.

AMPHENOL

31-002
BNC Male for RG-58
31-012
BNC Male for RG-59/8X

AIM

CPAD-556M
BNC Dual Female chassis mount

AMPHENOL

31-221
BNC Female chassis mount

COAXIAL ADAPTERS

AMPHENOL

83-1T
UHF T-connector

AIM

27-8140
BNC T-connector

AMPHENOL

83-877 - UHF double male adapter

AMPHENOL

4400 - SO-239 to Type-N male adapter

AIM

26-8015 - SO-239 to Type-N male adapter

AMPHENOL

31-28 - BNC female to PL-259 adapter

AIM

27-8120 - BNC female to PL-259 adapter

HOUSE OF DEALS

SMA-872 - SO-239 to SMA plug adapter

AIM

27-8130 - BNC double male adapter

AIM

25-7420 - BNC male to SO-239 adapter

26-8017 - BNC male to N female adapter

AMPHENOL

2900 - SO-239 to BNC male adapter

AMPHENOL

83-1AP - UHF right angle adapter

AMPHENOL

82-64 - Type-N right angle adapter

AIM

CPAD-809 - BNC female to Type-N male adapter

AIM

25-7365 - BNC female to SO-239 adapter

AIM

29-4140 - SO-239 to mini-PL-259 adapter

AIM

26-8014 - Type-N female to PL-259 adapter

AMPHENOL

83-1J - UHF double female connector

AIM

CPAD-207 - Chassis or panel mount SO-239 double female connector

AIM

26-8010 - Type-N double female connector

AIM

29-3855 - BNC female to SMA male adapter

MICROPHONE AUDIO & DIN CONNECTORS

VANCO

CBC-8P Panel mount 8-pin male

KENWOOD

7-PIN DIN plug
8-PIN DIN plug
13-PIN DIN plug

PHILMORE

61-608B 8-pin female microphone plug

VANCO

CBC-4 4-pin female microphone plug
CBC-5 5-pin female microphone plug
CBC-6 6-pin female microphone plug

HOUSE OF DEALS

AP-115 1/4" metal stereo plug
AP-135 3.5mm stereo mini-phone plug

DALBANI

15-0293 3.5mm monaural phone plug

Prices for items on this page can be found under CONNECTORS in the Price Guide.

Price Guide / Used / Demo
Ham Radios
Accessories
Antenna Accessories
Publications
Other Radios
Weather & GPS
Audio / Video & Tools
AES Information

ANTENNA & COAX CONNECTOR PROTECTION

COAX-SEAL

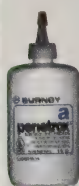
WRAP!

MOLD!

UNV 104 Hand Moldable Plastic for Antenna Component Protection – The quick and effective way to seal and protect all types of coaxial connectors and antenna system components. Simply wrap it on like regular tape, then mold it to any shape. It adheres tightly to metal, vinyl and polyvinyl coax outer jackets. Stays flexible and sealed at any temperature to resist moisture penetration. Permanent flexibility makes it possible to remove and reinstall fittings, then re-seal by reforming the same material. Non-toxic and non-contaminating roll, 1/2" w x 60' **\$3.99**

Cross Devices

STUF Dielectric Water-proof Connector Filler High purity macroscopic foam dielectrically simulates the coaxial cable core and seals out moisture. Just fill coax connectors and tighten. The filler material hydraulically channels into all voids and points of moisture entry. Non-hardening, easy to remove. No silicone or other additives to harm coax cable material ... (tube) **\$5.99**



PENETROX™

A highly conductive grease recommended for use on aluminum-to-aluminum and aluminum-to-copper connectors, bare conductors, and bus bars. Assures long term high conductivity joint by sealing out air and moisture to prevent corrosion and reformation of oxide film. Apply to mating pieces of antenna components, tubing, etc. during assembly to provide a non-corrosive, low resistance and air tight seal. Easy disassembly **PENETROX A** (4oz. bottle) **\$14.99**

AMERITRON

REMOTE CONTROLLED ANTENNA SWITCHES



RCS-4 – Select up to 4 different HF antennas by supplying control voltages thru the coax without the need for a separate control line. The weatherproof switch box can be tower, mast or wall mounted. Uses 3 heavy duty 10A contact relays on a fiberglass circuit board 5.25" d x 7" w x 3" h.; 120VAC Rated 1.8–30 MHz, 2KW; Safe 14VDC control; Indoor control console locates at operating position. Dim: 6" d x 6" w x 2.5" h..... **\$139.99**



RCS-8V – Independently or simultaneously select up to 5 different antennas using one coaxial feedline and 8-wire control cable. Internal wiring allows grounding or floating unused terminals as required. Rated at 5KW to 30 MHz, 1KW to 150 MHz. **\$149.99**

RCS-8VN – Same as RCS-8V but with N-type female connectors **\$159.99**

RCS-10 – Select up to eight HF antennas using one feed line and a single four conductor control line (not supplied). Long life sealed relays with 16A current rating. Rated up to 100 MHz and over 5KW power into matched loads below 30 MHz..... **\$169.99**



MFJ



1703 Rig/Antenna RF Safety Switch – Prevents your rig from transmitting into nothing. Your rig is always connected to one of two antennas. Connect two rigs and two antennas and switch to different combinations. Range: 1.8-30 MHz; up to 300W SSB/150W CW. Metal cabinet with mounting tabs. Dim: 6.5" w x 2.5" h x 1.5" d..... **\$24.99**

COAXIAL ANTENNA SWITCHES

ALPHA DELTA

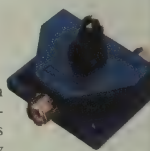


Two and Four Position Switches Full Product Descriptions on page 85.

DAIWA
Industry Co. Ltd.

CS-201 2-Position Coaxial Switch

A high quality switch with excellent high frequency RF characteristics due to cavity and heavy die-cast metal construction. Frequency range up to 600 MHz with less than 0.12 VSWR. Less than 0.2dB insertion loss and 60dB isolation between terminals. Handles 2.5 KW PEP or 1KW CW. Automatic grounding of unused terminals. SO-239 connectors..... **\$26.99**



MFJ

1700C Antenna and Transceiver Switch with Lightning Protection

Switch up to six antennas and six rigs in any combination. For 50 or 75Ω, rated 2KW PEP or 1KW CW from 1.8-30 MHz. Dim: 10" w x 3" h x 1.5" d..... **\$99.99**



1701 Antenna Switch – Six positions, 50-75Ω. Rated for 2KW PEP or 1KW CW from 1.8–30 MHz. Grounds unused positions for surge protection. Dim: 10" w x 3" h x 1.5" d..... **\$69.99**



1702C/CN

1704/N

1702C Antenna Switch – Two positions + center ground, 50Ω, rated to 500 MHz. Handles for 2.5KW PEP or 1KW CW. Less than 0.2dB loss and greater than 60dB isolation @ 300; 50dB @ 450 MHz. Grounds unused positions for surge protection. **\$34.99**

1702CN – Uses type-N connectors for lowest loss on UHF. Good up to 1.1 GHz..... **\$39.99**

1704 Antenna Switch – Four positions + center ground, 50Ω, rated to 500 MHz. Handles 2.5kW PEP, 1KW CW. Less than 0.2dB loss and greater than 50 dB isolation @ 500 MHz. Includes lightning protection with a replaceable gas-tube..... **\$74.99**

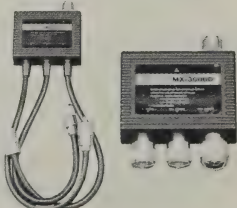
1704N – Uses type-N connectors..... **\$79.99**

DUPLEXERS

Type	S0239 PL259/PL259	S0239 PL259/Nfemale	S0239 S0239/S0239	S0239 PL259/PL259	S0239 PL259/Nfemale	Nfemale PL259/Nfemale	PL259 S0239/S0239
Leads	No	No	No	Yes	Yes	No	Yes
2m/440	Comet CF4160K Diamond MX72D	Comet CF4160I	Comet CF4160J MFJ 916B	Comet CF416A Comet CF530 Diamond MX72H	Comet CF416B Diamond MX72N	Comet CF416C Comet CF416W	
2m/220	Diamond MX214D			Comet CF142			
HF/6 to 440				Comet CF360A			Comet CF360B
HF to 6/2m				Comet CF706A Diamond MX62M			

TRIPLEXERS

Type	Leads	HF/6/2/440/1200	HF/6/2/440	2/220/440
Nfemale PL259/PL259/Nfemale	No	Comet CFX4310C		
S0239 PL259/PL259/PL259	Yes	Diamond MX2000	Comet CFX514	Comet CFX324A Diamond MX324
S0239 PL259/PL259/PL259	No		Comet CFX5140	Comet CFX324B C/O Diamond MX324D
Nfemale PL259/PL259/Nfemale	Yes	Diamond MX3000		
S0239 PL259/PL259/Nfemale	Yes		Comet CFX514N	
S0239 S0239/S0239/S0239	No		Comet CFX514I	



For Duplexer/Triples prices, see the Price Guide under each respective manufacturer.

Coax Sealant • Duplexers & Triples

Antenna Switches



Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI
Browse Our Store On-Line at www.aesham.com

The primary rule for protecting ham radio equipment against lightning damage is connection of all elements to a single, low impedance, ground system within the ham shack. This includes antenna, antenna support (pole, tower, etc.), and all station protectors (antenna, power, telephone, rotor, etc.).

BROADBAND COAXIAL PROTECTORS

Hermetically-sealed gas tubes and additional components assure surge voltages and currents that are formed differentially on coaxial cable are prevented from being shared by valuable equipment. DC blocked for maximum protection. Low loss; Multi-strike capability with low strike throughput energy; Aluminum enclosure; Wide frequency range, low SWR; Works on all equipment; Silver-center, TFE, UHF connectors; Silver shell and gold pin Type-N.

Flange Mount (left)

IS-50UX-C0

1.5-400 MHz; HF 2kW, VHF 375W, UHF 125W; UHF connector... **\$62.99**

IS-50UX-C1 - 50-700 MHz; VHF 375W; UHF 125W; UHF connector... **\$62.99**

IS-50NX-C2 - 125-1000 MHz; VHF 375W, UHF 125W/50W (low/high); Type-N connector. **\$62.99**

Bulkhead Mount (right)

IS-B50LU-C0 - 1.5-400 MHz; HF 2kW, VHF 375W, UHF 125W; UHF connector... **\$65.99**

IS-B50LU-C1 - 50-700 MHz; VHF 375W, UHF 125W; UHF connector... **\$65.99**

IS-B50LN-C2 - 125-1000 MHz; VHF 375W, UHF 125W/50W (low/high); Type-N conn... **\$65.99**

LOW INDUCTANCE COPPER STRAP

A larger surface area and lower inductance gives strap a huge advantage over wire for RF grounding and lightning protection. Cannot be fused open by lightning. Usable above or in-ground, #26 AWG thickness. Available in 1.5 or 3 in. widths and 25, 50 or 100 ft. rolls. See Price Guide for details.

270 Lightning Surge Protector - A replaceable ultra-fast gas discharge tube safely shunts up to 5000 amps peak impulse current to an independent ground. Rated to 100W PEP, usable up to 1000 MHz... **\$29.99**

AES LIGHTNING PROTECTORS

Gas-tube protection isolates equipment from damaging surges. The Gas-tube holder unscrews providing for simple replacement. Both models are weatherproof, may be bulk head mounted, or flange mounted using the included bracket. Machined construction, gold pin teflon female connectors. Rated 1600W. Dim: 2.5" x 1" dia.

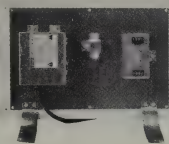
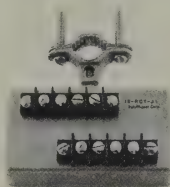
SP-U - UHF female connectors; DC to 600 MHz range; 0.1dB insertion loss... **\$49.99**

SP-N - Type-N female connectors; DC to 2.5 GHz range; 0.2dB insertion loss... **\$49.99**

AP - Replacement Gas-tube protector... **\$9.99**

GROUNDING PANEL

CU-SGP - A heavy 0.062" copper plate mounted on 1/2" plywood. For mounting protectors and establishing the important single grounding point for all station equipment. Comes with concrete anchors, mounting screws, two rolls of 10' x 1.5" copper grounding strap and 2 copper, 18" x 12" h, sandwich bars, 16" on-center mount... **\$179.99**



ROTOR CONTROL PROTECTOR

IS-RCT (left) - 8-wire protection for rotor box and nearby equipment. Water tight with mounting stud. Shown with optional J-1 clamp... **\$99.99**

IN-LINE PHONE LINE PROTECTOR

IX-1TW (right) - Multi-stage protection for telephone trunk lines. Handles ring voltages up to 105V, surges up to 36kA... **\$89.99**

POWER LINE EXTENSION PROTECTOR

In-line, multi-stage protectors provide multi-strike line protection, filtering and proper grounding for a 120V AC line. 2 grounded outlets, power switch, and circuit breaker. All aluminum grounded enclosure; 4.75" wide.



PLDO-120US15A - 15' cord; 120V/15A **\$169.99**
PLDO-120US20A - 6' cord; 120V/20A **\$199.99**

Connecting you to the World[™]
CABLE XPERTS[™]

FLAT BRAIDED GROUND STRAP



Flat, flexible, and tinned for easy soldering. Use the 1 in. wide size for connecting tower legs or antennas to ground rods or to a central grounding point. From the central point, use separate lengths of 1/2 in. wide to connect to each piece of station equipment for best lightning protection.

2332 - 1/2 in./10 ga., rated at 53A... per ft. **84¢**

2332 100 - 100 ft. roll of above... **\$66.99**

235 - 1 in./7 ga., rated at 85A... per ft. **\$1.35**

235 100 - 100 ft. roll of above... **\$117.99**

Kleinhuys
ISOLATED GROUNDING BAR

1309 Isolated Ground Bar - Provides additional panel, sub panel or control panel grounding points. Accepts 8 to 12 (AWG) stranded or solid copper wire. Corrosion resistant, nickel-plated, copper clamping rail. Locking protective hinged cover. UL listed, CSA approved. 600V max. Dim: 7.5" x 1.75" h... **\$14.99**

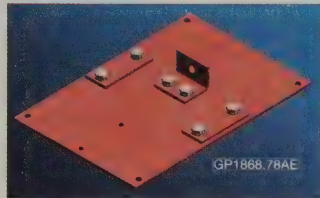
HARGER

GBIS18114AE

GROUNDING ACCESSORIES

GBIS18114AE 1/8" Copper Entrance Ground Bar Kit - Installs at shack entrance, making a short connection to the ground system. Holds up to five PolyPhaser IS-50-type lightning protectors. Insulated stand-off brackets allow attaching and insulating of ground bar from mounting surface. Two HD terminal lugs and hardware included. Attach grounding wires from 1/0 stranded to #6 solid... **\$39.99**

GEL3AE - Pkg. of 5 HD terminal lugs... **\$26.99**



GP1868.78AE

1/8 in. Copper

Single Point

Ground Panel

Kit - Provides

Single-Point

grounding for

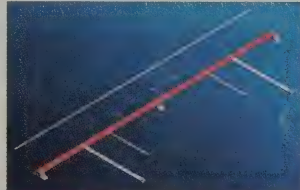
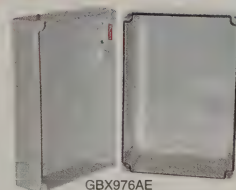
two transceiver

lines and rotor

control cable.

Installs at tower base or on outside wall. Sized to fit inside a NEMA-4X style box for weather proofing. Tapped holes and hardware provided for mounting a PolyPhaser IC-RCT rotor control protector and up to two IS-50 series coaxial protectors. Sandwich plates and hardware included... **\$76.99**

GBX976AE NEMA 4X Waterproof Enclosure Accepts GP1868.78AE ground panel... **\$127.99**



GBIS18148AE 1/8" Copper Station Ground Bar

Kit - Installs in back of operating desk. Grounds individual components to a common point preventing multiple ground paths and daisy-chains. Accepts a heavy ground conductor to be routed to station ground or entrance ground bar. Includes two heavy 12 in. straps for equipment and two light duty 1/4 in. straps for accessories, plus an extra 1/4" strap and lugs for added assemblies... **\$83.99**



LOW-PASS & HIGH-PASS FILTERS

For suppressing Television interference (TVI) from nearby HF transmitters

LOW-PASS FILTERS install in the transmission line between the transmitter and antenna or tuner. They are designed to allow signals below the cutoff frequency to pass through and attenuate signals above the cutoff frequency.

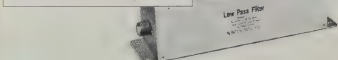
HIGH-PASS FILTERS install at the TV set antenna terminals and allow signals above the cut-off frequency to pass through and attenuate signals below the cutoff frequency.



HP-300T 300 ohm High-Pass Filter - Sharp cutoff at 52 MHz with 70dB attenuation below 50 MHz. For use with TV twinlead. **C/O \$9.99**

HP-75T 75 ohm High-Pass Filter - For use with 75 ohm TV coaxial cable. **\$14.99**

BENCHER, INC.



YA-1 52 Ohm Low-Pass Filter - Covers 1.8-29.7 MHz, handles 1.5KW continuous (5KW Peak). Ultimate attenuation: 80dB @ 54 MHz. Loss: < 0.2dB. Dim: 9.2" w x 2.5" h x 2.5" d. **\$90.99**

KENWOOD

LF-30A 52 Ohm Low-Pass Filter - Covers 1.8-30 MHz, handles 1 KW. Ultimate attenuation: >90dB above 90 MHz. Loss: <0.5dB @ 30 MHz. Dim: 9.6" w x 2" h x 1.5" d. **\$64.99**

MFJ

704 52 Ohm Low-Pass Filter - Covers 1.8-30 MHz, handles full legal power. Nine Chebyshev poles and Teflon® capacitors. Attenuates above 40 MHz. Insertion Loss: <0.5 dB. RF tight cabinet. Dim: 3" h x 3" w x 9" d. **\$49.99**

VECTRONICS



LP-30 Low 52 Ohm Low-Pass Filter - Covers 1.8-30 MHz, handles 1.5 KW. Up to -70dB harmonic attenuation. **\$79.99**

LP-2500 - Same, but 2.5KW rating. **\$119.99**

HPF-1 300 ohm High-Pass Filter - High harmonic attenuation in the 52-550 MHz TV pass-band. 75 ohm balun and F connector. **\$24.99**

HPF-2 - Same, but deluxe version. **\$29.99**

Gift Certificates...
available from all
AES locations



DCI DIGITAL COMMUNICATIONS

**BANDPASS FILTERS**

Install in transmission line between a 2 meter, 220 or 440 MHz rig and antenna to reduce strength of out-of-band interfering signals while allowing wanted signals to pass through at full strength. Eliminate squeals, squawks, beeps and strange voices from a UHF or VHF radio caused by intermodulation from strong, nearby pagers, police radio, etc. Effectively reduces spurious emissions on transmit. Hear desired signals even in crowded, urban centers. 2M/220 MHz uses four helical resonators, 440 MHz uses four 1/4-wave linear resonators, both with aperture coupling. VSWR 1.5:1; 200W power rating; Made of extruded aluminum, copper and brass. Dim: 12w x 3 h x 5 d; 2 lb, 11oz.

146-4H - 144-148 MHz. Loss < 1dB; Selectivity: -57dB @ 136 MHz and -43dB @ 156 MHz. SO-239 silver-terfon connectors. **\$169.99**

145-2H - Same, but 144-146 MHz. **\$169.99**

146/444DB - 144-148 / 438-450 MHz. Selectivity: -50dB @ 136 MHz, -40dB @ 156 MHz, -30dB @ 425 MHz, -25dB @ 465 MHz. SO-239 silver-terfon connectors. **\$239.99**

223.5-3H - 222-225 MHz. Loss 1 dB; Selectivity: -33dB @ 213 MHz and -28dB @ 233 MHz. SO-239 silver-terfon connectors. **\$169.99**

445-10C - 440-450 MHz. Typical selectivity: -47dB @ 425 MHz, -50dB @ 456 MHz; Loss 1dB. Type-N silver-terfon-gold connectors. **\$189.99**

435-10C - Same, but 430-440 MHz. **\$189.99**

Upgrade to type-N connectors on 2m and 220 MHz models - add \$10 to price. Special Order

MFJ FERRITE RFI KITS

701 RFI Free Choke Kit - Eliminate RFI problems by winding offending cables around an RFI suppressing toroid. Effective from 0.5-200 MHz. Separates into halves for easy winding of all types of cable - computer ribbon, coax, power cord, telephone, audio-video. Halves mount in snap-together plastic frame. Multiples can be stacked for more effect. (Pack of 4) **\$16.99**

Palomar Engineers

RFI-4 RF Interference Kit - A selection of ferrite toroids and beads to eliminate RFI from 1-1000 MHz. Contains: 12 beads with 0.2" holes for small wires and cables, 4 toroid (donut shaped) cores with 1/2" holes, 4 with 3/4" holes and 4 split beads (toroids cut in half so you can put them over cables without disconnecting). Two fit over RG-58 (1/4" hole) and two fit over RG-8 (1/2" hole). Includes a RFI tip sheet explaining the use of ferrites and how to use them to keep RF out of computers, stereos, VCRs, alarm systems, and telephones. **\$25.99**

K-COM

TELEPHONE
RF INTERFERENCE
FILTERS



Cure telephone RF interference in the most irritating cases even when dealing with transmitters with full legal power output. Use any number of filters with no adverse effect on telephone performance.

RF-1 - For single line equipment including wired or cordless phones, answering/fax machines, modems, etc. Uses standard modular connectors. **\$16.99**

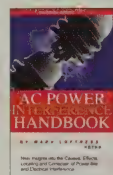
RF-1/2-LINE - For 2-line or multi-line, multi-station electronic key phone systems. **\$22.99**

RF-1/COILED - For use when RFI enters thru coiled telephone cord between base and handset. **\$22.99**

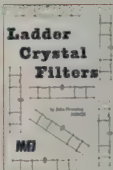
RF-2 - Hard-wired, provides a wide range of installations optional to add RFI rejection at a variety of physical/electrical locations in the system; inside jacks, behind wall mounts, etc. **\$10.99**

Interference and Filter Publications

The ARRL RFI Book
Loads of information for practical interference cures: Power line, Automotive, Television, Computers, Lamps, VCRs, Stereos, Intermod, Telephones. Latest regulations, suppliers, more.
ARR 9892 \$29.95



AC Power Interference Handbook - 2nd edition, revised, by Marv Loftness, KB7KK. New insights into the causes, effects, locating and correction of power-line and electrical interference. 18 chapters. **ARR 9055 \$29.95**



Ferromagnetic-Core Design & Application Handbook - The legendary textbook from the late Doug DeMaw, W1FB emphasizes the practical aspect of ferromagnetic core material. 256 pages. **MFJ 3506 \$19.95**

Ladder Crystal Filters - A handy reference guide for the development and construction of Ladder Crystal Filters by John Pivnichny, N2DCH. 134 pages. **MFJ 3509 \$19.95**





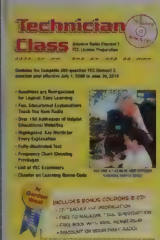
Study with the best!

FCC License Study Materials by Gordon West, WB6NOA and The W5YI Group

Technician Class

General Class

Extra Class

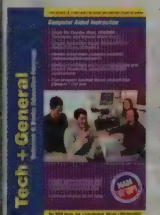


Technician Class manual for the 2006-10 entry-level exam! Gordo has reorganized the questions into logical topic groups for easier learning! Key words are highlighted in the explanations to help you remember the material for test success.

Web addresses for more than 150 helpful, educational sites. Bonus audio CD teaches VHF propagation. **WSY GWTM-06 \$18.95**

Tech Book & Software Package Package includes Gordo's book and Windows program that allows you to study at your computer and take practice exams. Gordo's explanations from the book are now on the software! With free Part 97 Rule Book. **WSY NCS-06 \$39.99**

Tech Audio Course on CD Technician Theory Course recorded by Gordo walks you through what you need to know for the Element 2 exam. Great study companion to his *Technician Class* book, and an excellent study aid if you spend a lot of time in your car or truck! 4 audio CDs. **WSY GWTW-06 \$27.99**



Tech + General Software Value Pack Includes *Technician Class* and *General Class* books, plus software for the Elements 2 and 3 exams, and bonus W5YI Morse code teacher software. Includes free Part 97 Rule Book. Get into ham radio and upgrade to the worldwide HF bands with one educational package! No CW test! **WSY TPG-07 \$69.99**

Learn Morse Code for HF Fun! In-depth CD/6-tape, audio courses recorded by Gordo:
0-5 wpm on 8 audio CDs **WSY GW05/CD \$39.99**
5-13 wpm on 6 audio tapes **WSY GW13 \$29.99**
10-28 wpm on 6 tapes **WSY GW20 \$29.99**
GW13 & GW20 are special order items.

0-5 wpm CW refresher course on 2 CDs **WSY GWCT \$14.99**
W5YI code software 0-48 WPM **WSY WMC \$19.99**

Learn all about electronics with our Basic books
Basic Electronics **WSY BELC \$19.99**
Basic Digital Electronics **WSY BDIG \$19.99**
Basic Communications Elec. **WSY BCOM \$19.99**



General Class book Upgrade to the HF bands with Gordo & W5YI! No CW test! Gordo's NEW manual for 2007-11 reorganizes all the questions into logical topic groups for easier learning. His explanations include highlighted key words to help you remember the material for test success. Companion CD is full of great operating tips! **WSY GWGM-07 \$20.99**

General Book & Software Package Study at your computer and take practice exams. Software includes explanations from Gordo's book, scores your results and highlights areas that need further study. Includes free Part 97 Rule Book. **WSY GUS-07 \$44.99**

General Audio Course on CD General Theory Course recorded by Gordo is full of the sounds that bring ham radio to life! He talks you through the Element 3 theory to help you understand the material and get you ready for your upcoming exam. 4 audio CDs. **WSY GWGW-07 \$29.99**

No Internet Connection Required!



Ham Operator Software Has All Exams
Want to study at your computer without tying up your internet connection? This value pack includes the Tech, General and Extra class exams (Elements 2, 3, and 4) along with the W5YI Morse code software and a free Part 97 Rule Book. Includes Gordo's answer explanations from his books! Everything you need to go all the way to the top! **WSY HOS-07 \$39.99**
Software only
Software with all 3 West Books **WSY HOSB-07 \$89.99**

Get Your Commercial License!



GROL-Plus book covers FCC Elements 1, 3 & 8 for MROP, GROL, and Radar Endorsement **WSY GROL \$39.99**
GROL-Plus book with practice exam software. **WSY GRSP \$69.99**



Extra Class book Go to the top with Gordo! 2002-2008 book includes all Element 4 questions and answers, along with Gordo's fun, educational explanations. Full of Gordo's great memory tricks for those tough math and electronic theory questions (wait 'til you meet "Eli the Ice Man")! **WSY GWEM-02 \$21.99**

Extra Book & Software Package Study at your computer and take practice exams as the W5YI software scores your results and highlights areas that need further study. Software includes explanations from Gordo's book. Package includes Gordo's *Extra Class* book and free Part 97 Rule Book. **WSY ECS-02 \$44.99**

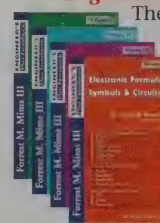
Extra Audio Course - Now on CD Extra Class Theory Course recorded by Gordo talks you through the difficult Element 4 theory to help you understand the material and get you ready for your upgrade to the top. On 7 long play audio CDs. **WSY GWEW-02/CD \$39.99**

Getting Started in Electronics



by Forrest M. Mims
A great introduction for anyone who wants to learn the fundamentals of electronics. Includes 100 projects you can build, and great experiments that demonstrate how electricity works! **WSY GSTD \$19.99**

Engineer's Mini Notebooks



These Mims classics teach you hands-on electronics! Study and build 100's of practical circuits and fun projects. Each volume contains several of his famous Mini Notebooks. Terrific ideas for science fair projects and a great

way to learn about electronics! Useful reference guides for your workbench!

- Vol. 1: Timer, Op Amp, & Optoelectronic Circuits & Projects **WSY MINI-1 \$12.99**
- Vol. 2: Science & Communications Circuits & Projects **WSY MINI-2 \$12.99**
- Vol. 3: Electronic Sensor Circuits & Projects **WSY MINI-3 \$12.99**
- Vol. 4: Electronic Formulas, Symbols & Circuits **WSY MINI-4 \$12.99**

Price Guide
Used / Demo
Ham Radios
Ham Radio
Accessories
Antenna
Accessories
Publications
Other
Radios
Weather
& GPS
Audio / Video
& Tools
AES
Information



Amateur Radio Service Licensing

Make ARRL your first choice for **ham radio license** training!



LEVEL 1 - TECHNICIAN

- ◆ The ARRL Ham Radio License Manual
- ◆ The ARRL Instructor's Manual
- ◆ ARRL's Tech Q & A

LEVEL 2 - GENERAL

- ◆ The ARRL General Class License Manual
- ◆ ARRL's General Q&A

LEVEL 3 - AMATEUR EXTRA

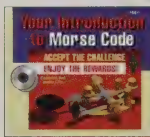
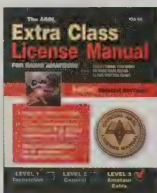
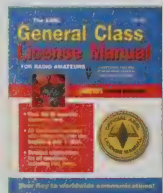
- ◆ The ARRL Extra Class License Manual
- ◆ ARRL's Extra Q&A

ARRL The national association for
AMATEUR RADIO
www.arrl.org



"ARRL—helping hams get started since 1914"

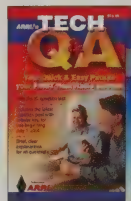
STUDY MATERIALS



Your Introduction to Morse Code

A cassette tape or CD series from ARRL to teach Morse code in order to pass the General license exam. Set includes plain-language practice text and Morse code exams using the format of a typical amateur contact. CD format only.

ARR 8314 (CDs) ea. **\$14.95**



General Class License Manual
All study material needed..... **ARR 9205 \$19.95**
Extra Class License Manual
Complete test material source... **ARR 8659 \$24.95**



Getting Started with Ham Radio
A guide to your first Amateur Radio station. Select radios and antennas; Explore operating modes: voice, Morse code, digital and more; Assemble your station; Operating; QSLing and More!
ARR 9728 \$19.95



ARRL Ham Radio License Manual

Use this book to pass the 35-question license test and get your **FIRST** ham radio license! Includes the latest question pool with answer key. Designed for self-study and for classroom use. Intended for all newcomers, instructors and teachers.

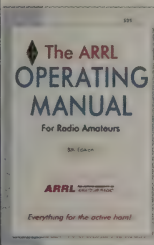
ARR 9639 \$24.95

ARRL's Tech Q&A, 4th edition
It's Quick and Easy to earn your **FIRST** amateur radio license with this study guide and the convenient question and answer format. Your authoritative guide to every question in the Technician Class (Element 2) question pool **ARR 9647 \$15.95**

ARRL's General Q&A
Authoritative guide to every General question in the pool. Everything needed to pass! Explanations to possible questions **ARR 9213 \$15.95**

ARRL's Extra Q&A
Includes the latest question pool with answer key for Extra class license exam. Brief clear explanations for all possible exam questions. **ARR 8888 \$17.95**



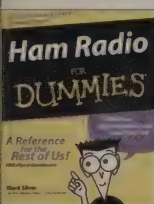
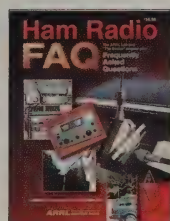


ARRL Operating Manual
The most complete book about Amateur Radio operating. Information about new bands, modes or activities. Covers rules and regulations, repeaters, EchoLink, IRLP, APRS, meteor scatter, DXing, contesting and award hunting.

ARR 9132 \$29.95

Ham Radio FAQ
The ARRL Lab and "The Doctor" answer your frequently asked questions. Useful information on: antennas, transmission lines and propagation, station, mobile, portable, repeaters, batteries, grounding and lightning.

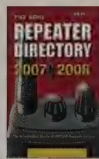
ARR 8268 \$14.95



Ham Radio for Dummies
Thoroughly explains Ham Radio. What is needed to get started, and how to become a licensed ham operator - all in plain English.

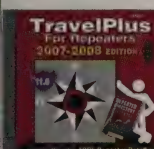
Chapters: What is Ham Radio All About?; Wading through the Licensing Process; Hamming it Up; Building and Operating a Station That Works; Secrets and Tips

WIE HRFORDUMMIES \$21.99



2007/08 Repeater Directory

Choose the original Pocket-sized or Large Easy-to-Read Desktop version. Over 20,000 listings for VHF/UHF repeaters, plus repeater operating practices, repeater lingo and hints, frequency coordinators, using CTCSS and DCS tones more!
Desktop (6 x 9 in.) **ARR 9914 \$15.95**
Pocket (3.25 x 5.25 in.) **ARR 9906 \$10.95**



2007/08 TravelPlus for Repeaters™ v.10.0 CD
Two major functions - Map View to find repeaters along your travel routes, and DataSource for direct selection, sorting and printing of repeater information.

You can choose maps showing major highways in the US and Canada, or more detailed maps that add state highways in the US. There are separate maps for Alaska, Hawaii, US counties and Rail. The DataSource allows you to select repeaters by band and location.
Windows 98SE-XP **ARR 9930 \$39.95**

Repeater Map Book 12th Edition

The perfect travel companion containing 100's of open repeater locations throughout the U.S., Canada and Mexico. Detailed maps show all highways and major cities in each state. Grid squares on every U.S. map and NOAA weather frequencies for the U.S.

ART REPEATERMAP \$14.99

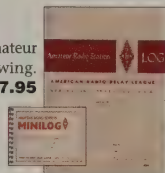


Log Book

This universal log suits all amateur DXing, contests, rag-chewing.
8.25" x 11" **ARR 1250 \$7.95**

Minilog

For portable/mobile ops,
6.5" x 4" **ARR 7539 \$4.95**



ORP OPERATION

More QRP Power

QRP means operating with low power - 5W or less. An anthology of articles from recent issues of QST and QEX magazines, covering construction practices, transceivers, accessories and antennas. Dozens of projects and articles to help with assembly or improve a QRP station for home or travel.

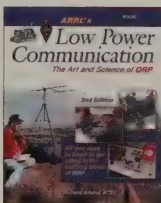
ARR 9655 \$19.95



Low Power

Communication 2nd Ed.
The Art and Science of QRP, by K7SZ. The low power game is one of ham radio's most exciting and rewarding challenges. Here's the lowdown on low power operating, from selecting gear, to advanced operating techniques, antennas, emergency communications, solar power and more!

ARR 9175 \$19.95

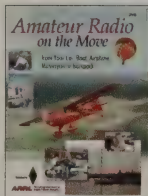


W1FB's QRP Notebook
Packed with construction projects for QRP transmitters, receivers and accessories. Gain understanding of circuits. Experience first hand the thrill of making contacts using equipment that you've built.

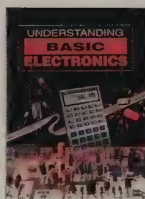
ARR 3657 \$10.00



MOBILE OPERATION



Amateur Radio on the Move
Car or RV, Boat, Airplane, Motorcycle or Backpack! Expert advice about Radios that you can use mobile. Getting power to run a radio, installation tips, safety, and antennas for mobile installations. Also getting rid of the noise, operating hints and tips, software and more! **ARR 9450 \$19.95**



Understanding Basic Electronics

For beginners and those who want to brush up on electronic principles. Clear, simple explanations and loaded with illustrations.

ARR 3983 \$29.95

Basic Radio

A comprehensive introduction to radio - what it does, and how it does it. The key building blocks of radio: receivers, transmitters, antennas, build-it-yourself projects to turn theory into practice and helping reinforce important subject matter.

ARR 9558 \$29.95



Introduction to

Radio Frequency Design
The functional methods of frequency design using mathematics as needed to develop intuition for RF circuits and systems. Many simple circuit models prepare you to actually design HF, VHF and UHF equipment.

ARR 4920 \$39.95



Hints & Kinks for the Radio Amateur

Brings together the best of Amateur Radio tips and techniques - antennas, weekend projects, shack accessories and operating from the pages of QST. You'll find articles included from interesting columns, *The Doctor is In* and *Hands-On-Radio*. Learn more about a new mode, or find your next construction project!

16th Edition ARR 8926 \$15.95

17th Edition ARR 9361 \$17.95



Heil Ham Radio Handbook
Loads of useful information for the beginner through the more advanced operator. Chapters on basic electronic and antenna theory, "building your own," and assembling an amateur radio station and much more!

HEI HAMRADIOHAND ... \$10.00

Ham Radio Anthology

Homebrewing techniques from the pages of *Ham Radio Magazine* (1968-90). Practical advice and techniques for many interesting projects. All 170 pages are presented just the way they were originally published.

CQX HRANHOMEBREW \$19.99



Price Guide
Used / Demo

Ham Radios

Accessories

Antenna
Accessories

Publications

Other
Items

Weather
& GPS

Audio / Video
& Tools

AES
Information

ANTENNAS

Antenna

Compendium 1

The premiere volume includes articles on a multiband portable, quads and loops, baluns, the Smith Chart and more!

ARR 0194 \$10.00

Antenna Compendium 2

Wide range of types and related topics, including innovative verticals, an attic tri-band, antenna modeling and propagation ARR 2545 \$14.00



Antenna Compendium 5 with software

Baluns, HF beams, yagis and quads are just some of the subjects covered. Articles on antennas, transmission lines and propagation. Projects to build. Includes IBM software for plotting antenna model data files ARR 5625 \$20.00

Antenna Compendium 6 with software

More articles on antennas, transmission lines and propagation. More projects ARR 7431 \$22.95

Antenna Compendium 7

Articles covering a wide range of antenna related topics including measurements and computations, mobile and multibands, practical tips and propagation and ground effects. This volume includes even more articles on low-band antennas and operating, and great designs for mobile operation. 208 pages.

ARR 8608 \$24.95

ARRL Antenna Book

In depth coverage of antennas, feed lines and propagation. THE SOURCE for current antenna theory and a wealth of practical, how-to construction projects. Extensively revised, and featuring antenna designs enhanced by the latest advances in computer modeling. Plus CD!

ARR 9043 \$44.95

Simple & Fun Ham Antennas

Lots and lots of real-world, practical antennas you can BUILD YOURSELF! 16 chapters on different types of HF, VHF antennas, masts and supports, towers and performance. 70 useful projects.

ARR 8624 \$22.95

RF Amplifier Classics

Amplifiers for the HF, MF, VHF and Microwave bands. Practical designs and construction details for classic tube and solid-state amplifiers from 5W to 1.5kW.

ARR 9310 \$19.95

ANTENNAS



VHF/UHF Antenna Classics

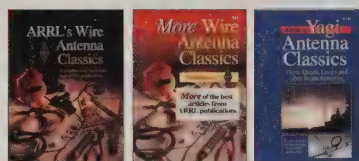
Ground planes, J-poles, mobiles, Yagis. Build a better antenna for an HT. Construct a 2 meter Yagi that rivals commercials. Includes projects from the 1980 to 2003 issues of QST ARR 9078 \$14.95

Vertical Antenna Classics

Articles from QST and the Antenna Compendium series. Tips and techniques from QST's "Hints & Kinks." Includes vertical antenna theory and modeling, HF/VHF/UHF, directional arrays, radials, grounds and more ARR 5218 \$12.00

More Vertical Antenna Classics

Designs for a variety of operating preferences, ground systems, portable antennas, phased vertical arrays and more ARR 9795 \$17.95



Wire Antenna Classics

Wire antennas ranging from simple to complex. Find one to deliver the performance you want. Dipoles, broadband and multi-band dipoles, loops, collinear, rhombics, wire beams, vertically polarized and receive antennas are all featured, even tree-mounted antennas ARR 7075 \$14.00

More Wire Antenna Classics

Enjoy even MORE wire antennas! Filled with innovative designs from the pages of QST and other ARRL publications ARR 7709 \$17.95

Yagi Antenna Classics

Collection from QST, QEX and others. Provides a historical perspective, novel and ambitious ideas, as well as computer-optimized designs. Chapters on mono/multibanders, HF, VHF and UHF beams, computer modeling, masts ARR 8187 \$17.95



W6SAI HF Antenna Handbook

Lots of inexpensive, practical projects that work. Great guide for constructing loops, yagis and vertical antennas CQX W6SAIHANT \$19.99

MARINE OPERATION



Marine Amateur Radio

Select, install, and operate a dependable ham radio system on any boat. Explains how to use your radio for Voice or CW communications, check and send e-mail, link up with onshore signal repeaters to extend your range, and even make phone calls ARR 9723 \$12.95

HISTORY / ARCHIVES

Vintage Radio

A collection of articles published in QST magazine describing vintage equipment and interesting points in the history of Amateur Radio that will evoke a sense of nostalgia. Articles were published between 1977 and 2003, including classic QST advertisements from the 1920s through the 1970s .. ARR 9183 \$19.95



200 Meters & Down

The Story of Amateur Radio by Clinton B. DeSoto. Chronicles the exciting evolution of Amateur Radio from the pioneers who perfected the wireless art through the technical advances of the mid-1930s.

ARR 0011 \$12.00



ARRL Periodicals on CD

Complete text and illustrations for all articles in QST, QEX and NCJ by year. Include search engine, book-marking, windows printing, software project source code, PC board etching patterns and clipboard support. Info by title, name, call sign, keyword, web. Windows® 3.1 minimum. Individual CDs by year 1995 to 2006, each \$19.95

ARR 5579 (1995) • 6109 (1996) • 6729 (1997)
7377 (1998) • 7881 (1999) • 8209 (2000)
8632 (2001) • 8802 (2002) • 9124 (2003) • 9396 (2004)
9574 (2005) • 9841 (2006)

QST VIEW

Back issues of QST available in full years on CD-ROM. Every page is stored as a black and white image that can be read or printed. Easy to use software allows you to: Search by title and author; Select by year and issue and browse individual articles. For Windows® 3.1 or higher. 5 years per CD-ROM... each \$39.95

ARR 5781 (1970-74) • 5773 (1975-79)
5765 (1980-84) • 5757 (1985-89) • 5749 (1990-94)
8497 (1995-99) • 9418 (2000-04)



INTERFERENCE SOLUTIONS

ARRL RFI Book 2nd Edition

By Ed Hare, W1RFI - 318 pages of interference solutions for TV, telephones, power lines, electrical devices, cable systems, VCRs, stereos, computers and more.

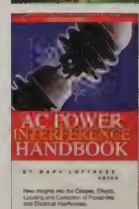
ARR 9892 \$29.95



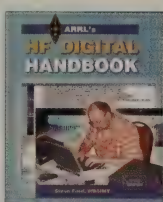
AC Power Interference Handbook, 2nd edition

By Marv Loftness, KB7KK - New insights into the causes, effects, locating and correction of power-line and electrical interference. This easy to read, very practical book, is a must for anyone responsible for solving interference problems.

ARR 9055 \$29.95



HF Digital Handbook
rd Edition - Discover the wonders of RTTY, PACTOR, PACTOR II, Clover, G-TOR, Jell-schreiber, MFSK16 & SK31. All it takes is your computer, an SSB transceiver and an HF modem, multi-mode processor or PC sound card. Learn how to assemble your own HF digital station, send/receive internet mail via HF radio, and more! .. **ARR 9159 \$19.95**



VoIP: Internet Linking for Radio Amateurs
Growing numbers of hams are using Voice Over Internet (VoIP) Protocol in combination with radios for long-distance communication using the internet. A guide to the 4 primary VoIP systems used by hams: choLink, IRLP, eQSO and WIRES-II. For beginners and more advanced **ARR 9264 \$17.95**

APRS - Moving Hams on Radio and the Internet
Guide to the Automatic Position Reporting System. Track moving objects, display weather statistics and storm warnings, find hidden transmitters or jammers and more. Learn how to set-up and operate your APRS station with just a VHF radio and computer. **ARR 9167 \$17.95**

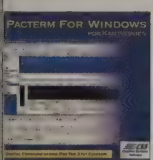
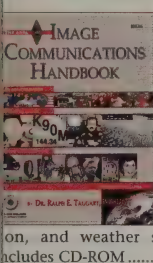
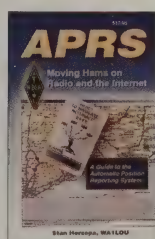
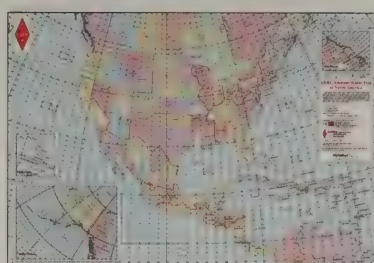


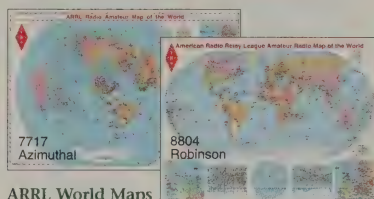
Image Communications Handbook
Explore the possibilities of using amateur radio to see and talk with other hams! With PCs, widely available software and gear many hams already own, it's easy to enjoy imaging modes: narrow band and amateur television, slow-scan television, and weather satellite imaging (WEFAX). Includes CD-ROM **ARR 8616 \$25.95**

PkTerm 3.0 and PacTerm 3.0 for Windows CD
Creative Services Software 32 bit terminal software for Kantronics, Timewave/AEA TNCs. Operate the Digital Modes: PSK-31, MFSK, MT63, SSTV, CW, RTTY, Amtor, PACTOR, VHF and HF packet. Works with single or dual port TNCs or your computer's soundcard with an interface. Requires AEA/Timewave Host Mode or Kantronics TNC Hostmode for TNC interface. For soundcard Only mode use any of the popular soundcard interfaces like the Hamhub, RIGblaster or MFJ-275/1279 interfaces. Built-in logging feature. **SS PACTERMFORWIN for Kantronics TNCs \$99.99**
SS PKTERMFORWIN Timewave/AEA PK-12/96/232 on CDROM \$99.99

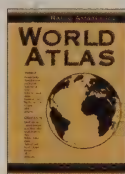
Order from ANY AES LOCATION



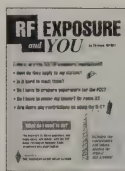
ARRL Amateur Radio Map of North America
This large, colorful wall map features current geographic detail and labels, grid squares, call sign prefixes, boundaries and more. Great for all operators! Essential for contesters, WAS, VHF/UHF Century Club, and other award seekers. Also makes a great hurricane tracking map. Dim: 27 x 39 in., durable plastic laminated **ARR 8977 \$15.00**



ARRL World Maps
Each colorful map features current geographic detail and world-wide call sign prefixes. **Azimuthal Projection** is centered on the central USA and is useful for antenna beam headings. Dim: 27 x 39 in., laminated. **Robinson Projection** is the popularized classroom-style projection map. Dim: 26 x 34.5 in., laminated **ARR 7717/8804 each \$15.00**



The ARRL World Grid Locator Atlas
Information on the locator system and maps showing all 32,400 Maidenhead grid squares. **ARR 2944 \$5.00**



Radio Amateur's World Atlas
16 pages of colorful maps covering the Americas, West Indies, Asia, Japan, Australia, Pacific Ocean, Europe, Africa and Antarctica..... **ARR 5226 \$12.95**

HEALTH/SAFETY

RF Exposure and You
Hams must comply with the FCC RF Exposure requirements. The FCC Form 610 includes an RF safety certification that must be signed. This book tells how to meet the requirements. Over 200 tables and graphs. **ARR 6621 \$22.95**

Lightning Protection and Grounding Solutions
How to install an effective grounding and protection system to guard communications equipment against destructive lightning surge energy. **PLY LPGS \$20.00**



DXing on the Edge
The Thrill of 160 Meters, by Jeff Briggs, K1ZM. Includes operating tips and descriptions for many practical antennas. Includes a CD with exotic, exciting QSOs made from prominent DX stations. Many photos and historical data from the early 30s to present **ARR 6354 \$29.95**

ON4UN's Low-Band DXing New 4th Edition - A must for DXers, contesters and casual operators who even occasionally venture onto the low bands! This book brings you the latest antennas, techniques and equipment for DXcitement on 160, 80 and 40-meters. Follow John Devoldere, ON4UN, as he presents practical information you need to operate a highly successful station on the low bands. Includes the fully searchable book on CD-ROM..... **ARR 9140 \$39.95**

The ARRL DXCC List JANUARY 2007 Edition
The Official DXCC source. Record the entities you've worked and QSLed. Complete listing of DXCC rules. Contains data about each entity on the DXCC List, deleted entities and the latest additions. Also included are the prefix cross-reference and list of international call sign series. Award descriptions and information about obtaining numerous DXCC items also featured. **ARR 9833 \$5.95**

EMERGENCY COMMUNICATIONS
The ARRL Emergency Communication Handbook

Intended for all hams that volunteer their skills in public service applications (or who are interested in doing so). Includes details on basic emergency communication skills, message handling, and more. Understand what to expect and what to take along. This book covers the Amateur Radio Emergency Communications Course (Level 1) manual but adds additional material **ARR 9388 \$19.95**

Emergency Power for Radio Communications
Explore electric power generation from charging batteries to keeping the lights on. Solar Power Controllers, Generators (Gas, Wind and Water), Inverters, Instruments & Safety .. **ARR 9531 \$19.95**

Need a Manual?

No more hunting through flea markets, calling multiple dealers, or photo copying a neighbor's. Find most instruction and maintenance manuals directly from the manufacturers' websites.

- www.alinco.com
- www.icomamerica.com
- www.kenwood.net
- www.yaesu.com

Price Guide
Used / Demo
Ham Radios
Accessories
Antenna
Accessories
Publications
Other
Radios
Weather
& GPS
Tools
Video
Information

CALL SIGN LOOK-UP ON CD

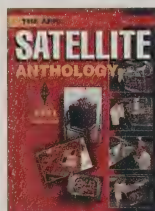
Buckmaster HamCall CD
Over 1.5 million listings by name, address, county, country and license class. Displays license issue date, expiration, previous call and class, area code, e-mail, URL, county, time zone, latitude/longitude, grid square, beam heading and long/short path distance. PC DOS and Windows (3.1, 95, 98, XP) compatible; Extensive international listings; Label printing; 4,000+ photos and QSL cards; Interfaces with most logging programs..... **BUC HAMCALL \$50.99**



QRZ Ham Radio CD
Volume 28, Winter 06-07. 1,250,000 names, callsigns and addresses of world-wide amateurs. Latest FCC callsigns with over 232,000 e-mail addresses. Includes country names for calls; 12,000+ QSL cards; Built-in text editor; 17-button multi-function toolbar; Auto storage of personal data; Auto QSL card generator; User customizable display; Multi-page printing and Multi-hit retrieval Supports Windows OS..... **WAL HAMQRZ \$24.99**



SATELLITE INFORMATION



Satellite Anthology 5th edition

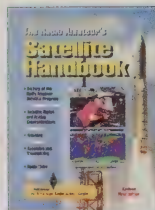
A compilation of QST articles dealing with satellites like Amsat-Oscars 10 and 13, Russian RS series and the Mircosats.

ARR 7369 \$15.00

Radio Amateur's Satellite Handbook

A comprehensive book written about amateur satellites from setting up a station and choosing the right antenna to tracking. Regardless of your level of experience with ham satellites, you'll find what you're looking for in this book.

ARR 6583 \$24.95



ARRL Weather Satellite Handbook

Types of satellites currently in orbit and how they operate. How to buy or build receivers and antennas. How to build an interface to view images received from satellites or shortwave WEFAX on a PC.

ARR 4483 \$20.00



LOGSAT PRO Satellite Tracking Software, V5.2

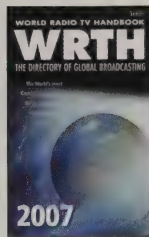
Track hundreds of satellites in dozens of windows. Kansas Features: Kansas City Tracker support; Complete multi-tasking; Unlimited open satellite windows at the same time; Voice alarms when satellite window becomes visible; 5 map projections; 3D antenna radiation diagrams can be displayed; Online help; The Satellite Encyclopedia. Requires Windows® OS, 286 or better processor, 4MB RAM, 15MB disk space, PC sound card with speakers..... **LOG LOGSATPRO \$69.99**

RADIO/TV RECEPTION GUIDES

2007 World Radio TV Handbook

The world's most comprehensive and up-to-date reception guide to mediumwave, shortwave and FM broadcasting for the serious radio listener. Informational articles, operating hints and latest product reviews.

WAT 059979 \$29.95



2007 PASSPORT to World Band Radio

Everything you need to know about tuning in shortwave stations, countries, frequencies and times. Includes informative reviews on popular world-band radios, many antennas, and expanded station address lists. 592 pages.

IBS 2007 \$22.95

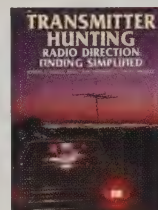
GENERAL / MISC INFORMATION



Low Profile Amateur Radio, 2nd Edition

The information you need to operate your station under many types of restrictive situations. Discussions and details for many real-life examples and techniques for a variety of low profile circumstances. Covenants, Conditions and Restrictions; Indoor Antennas; Operating Modes and Ties; Interference; Antenna Tuners; Low-Profile VHF/UHF Antennas; Mobile Operating.

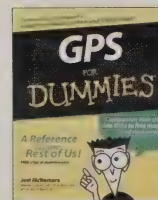
ARR 9744 \$19.95



Transmitter Hunting

Practical and fun! Locate radio frequency jammers, other malicious interference and downed aircraft. Do "T-hunting," "Fox Hunts" and help search/rescue. Getting started, equipping a vehicle, hunting techniques, antennas, RDF skills and more.

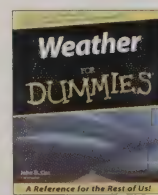
ARR 2701 \$24.95



GPS for Dummies

Make the most of your portable GPS gadget and all its amazing features. Pick the right receiver for you, create a map from your front door to the relatives six states away, venture into new places with confidence, explore the treasure hunting sport of GEOCACHING.

WIE GPSDUMMIES \$21.99



Weather for Dummies

Easy-to-understand explanations about meteorological concepts, from storms, jet streams, tornadoes and El Niño. Experiments and activities you can do at home. Plus insight on smog and the greenhouse effect.

WIE WXFORDDUMMIES \$21.99

GENERAL / MISC INFORMATION

Pocket REF, 3rd Edition

A handy pocket-sized reference containing 768 pages packed full of tables, maps, formulas, constants and conversions. A concise all-purpose guide covering chemistry, physics, electrical, electronic formulas, math, metric conversion, mechanical data, hardware, mapping, world wide telephone area codes, tools, currency, metals, weights, perpetual calendar, science, and more.

SEQ POCKETREF \$12.99

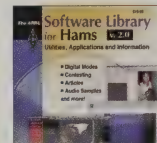


Pocket PC REF, 13th Edition

A concise IBM PC and compatibles computer reference book containing hard to find information and an extensive 3700 name PC Industry phone book.

Plus: Troubleshooting; Wiring; Connectors and Pinouts; WinXP/2000/UNIX Commands; Startup Programs and Processes; Network Wiring and Standards; File Name Extensions; Over 1,000 acronyms and definitions; CPU Processor Specs and ID; Specs, Configurations and Updates for 1000's of Hard, CD-ROM, Magneto Optical, Tape and Floppy Drives; Audio, POST and HTTP Error Codes; DOS Command References; ASCII Codes and Numerics; PC phone; Country domain names and more!

SEQ POCKETPCREF \$15.99



Software Library for Hams

CD-ROM, Version 2.0. Contains software for a wide variety of ham radio applications and a selection of articles from QST magazines.

ARR 9825 \$19.95

MFJ Publications

30 Golden Classics of Yesteryear.....	\$14.95
33 Modern Amateur's Mobile Handbook.....	\$14.95
36 Shortwave Listener's Guide.....	\$12.95
37 Ham Radio Communications Circuit files.....	\$12.95
38 Easy-Up Antennas.....	\$19.95
3301 Trouble Shooting Antennas & Feedlines.....	\$14.95
3302 73 Dipole & Long Wire Antennas.....	\$14.95
3303 73 Vertical, Beam & Triangle Antennas.....	\$14.95
3305 Antennas and Transmission Lines.....	\$19.95
3502 Solid State QRP Projects.....	\$12.95
3506 Ferromagnetic Core Design & Apps.....	\$19.95
3507 Practical RF Design Manual.....	\$19.95
3509 Ladder Crystal Filters.....	\$19.95

Current issues of Monthly Magazines

CQ Magazine.....	CQX CQ \$4.99
Electric Radio.....	ELE CTCRADIO \$3.75
Monitoring Times.....	GRV MONITORTIMES \$5.95
Nuts & Volts.....	NUT NUTS&VOLTS \$5.50
Popular Communications.....	CQX POPCOMM \$4.99
QEX Magazine.....	ARR QEX \$5.00
QST Magazine.....	ARR QST \$4.99

ORDER ON-LINE!
www.aesham.com



We accept I.M.P.A.C.® Government Credit Cards

Call Sign CDs • Satellite Information
Radio/TV Reception • Weather • Misc.



Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI
Browse Our Store On-Line at www.aesham.com



Cobra CB RADIOS

19DX IV Compact 40 channel Mobile CB Radio
New compact design; Full function LCD display;
Instant channel 9/19; RF gain/squelch control;
Combination S/R/F meter; Channel Indicator; TX
indicator; CB/PA switch; Mobile bracket.
Dim: 4.5" w x 1.75" h x 7.25" d; 2.1 lbs **\$49.99**



20XTR Xtreme Street Communicator 40
Channel CB Radio - Neon blue front panel illu-
mination and antenna that illuminates on transmit.
LED display; 4W (AM) output; CB/PA switch; Front
dynamic microphone jack. Includes mag-mount
antenna and mobile mounting hardware.
Dim: 6.25" w x 1.75" h x 6.5" d; 2 lbs... **C/O \$69.99**



25LTD AM Mobile CB Radio - 40 channels; 4W RF
output; Adjustable Dynamike boost; Instant chan-
nel 9; RF gain control; Switchable noise blanker;
Dimmer; CB/ANL/PA switch; RX/TX LED; Tactile
controls. Dim: 8.6" d x 6.3" w x 2.2" h; 4 lbs **\$89.99**

25WXNWST AM Mobile CB Radio - Same as LTD
but with NightWatch™ & Weather **\$109.99**

29LTD AM Mobile CB Radio - Same look and
basic features as the 25LTD but includes: Delta tune;
switchable ANL/Noise blanker; CB/PA switch;
antenna warning LED indicators; S/R/F/SWR meter.
Dim: 8.6" d x 6.2" w x 2.2" h; 4 lbs **\$99.99**

RECOMMENDED CB ANTENNAS

COBRA
HGA-1000 - Base loaded magnet mount mobile
antenna with coax and connector **\$19.99**

HUSTLER
HQT - A 55 in. top loaded whip with Mirror
Mount bracket. Comes with 12 ft. cable with PL-
259 connector. Chrome with a white coil. **\$29.99**

HQ-27M - A 55 in. top loaded whip with Trunk-
lip Mount. Comes with 15 ft. cable and PL-259 con-
nector. Chrome with a white coil **\$39.99**

1C-100 - 44 in. base loaded magnet mount anten-
na (white color) **\$23.99**

1C-11B - 42 in. base loaded trunk mount antenna
(black color) **\$14.99**

LARSEN
NMO-27C - Base loaded mobile, less mt. **\$32.99**

NMO-TLP - Low-profile trunk mount for the
NMO-27C. 17 ft. coax and PL-259 **\$29.99**

NMO-MMR - Magnet mount for NMO-27C.
Comes w/12 ft. coax & PL-259 **\$32.99**

MIDLAND
18-258 - Through Window Mount Mobile CB
Antenna. Power transfers thru-the-glass to outside
element without wires. Overall length: 25-1/4 in.
Includes coax cable & SO-239 connector ... **\$19.99**



Night View Day View

29NW AM Mobile CB Radio - Same look and
basic features as the 29LTD but no Delta tune;
Includes NightWatch™ fully illuminated display;
Variable dim control; Tone control; Instant channel
9/19. Dim: 8.6" d x 6.3" w x 2.2" h; 4 lbs.. **\$119.99**

29WXNW ST AM Mobile CB Radio - Same look
and basic features as the 29NW but: has
SoundTracker® system, 7 NOAA weather channels
with Weather Alert tone **\$129.99**



148GTL 40 channel AM/SSB CB Radio - Full fea-
tured, 4 full Watts (AM) and 12W (SSB) RF power.
Dual conversion AM receive; Adjustable Dynamike;
Illuminated S/R/F/SWR meter; Switchable ANL/NB;
PA capability; three-position tone switch; 2-color
RX/TX indicator; Digital LED readout; PA
Dim: 2.3" h x 7.8" w x 9.2" d; 5 lbs **\$149.99**



HH-ROAD TRIP 40 Channel CB
Handheld - Keep in vehicle for
emergencies, inter-vehicle commu-
nications and to receive the latest
weather information. SoundTracker®
system cuts noise up to 90% and 4W
of power gives up to 4 miles range.
High/low power switch. Operates on
9 "AA" alkaline or NiCads or from
vehicle battery with the included DC
cord and plug. Includes magnet
mount mobile antenna.
Dim: 6.75" h x 2" w x 1.75" d **\$79.99**

75WX ST Compact/Remote CB
Radio - 40 CB channels and 10
Weather channels. A remote box
installs out of sight and connects to
the microphone with controls and
full featured LCD display. Dual
watch and full channel scan;
Instant channel 9; Four memory
channels; Key lock. Dim: 4.2" h x
2.7" h x 1.8" d; 1.85 lbs **\$99.99**



SOLARCON

A-99 - Base Antenna. Three-piece fiberglass design
uses a 1/2-wave over a 1/4-wave section. Tunable,
3dB gain. Length: 17 ft. 8 in **\$79.99**

GP-K-1 - Ground plane kit for the Solarcon A-99
antenna. Adds 30% more power gain and pro-
duces a lower angle of radiation. **\$59.99**

WILSON

W-1000 - 5 ft. base loaded mobile antenna.
Available in three mount configurations. All come
with 18 ft. cable and PL-259 connector.

ROOF - thru-hole mount **\$59.99**

TRUNK - mount **\$66.99**

MAGNET - mount **\$76.99**

LITTLE WIL - 38 in. base loaded magnet mount
antenna **\$39.99**

uniden CB RADIOS



PC-68XL 40-Channel CB Radio - Front micro-
phone jack; Backlit controls; S/R/F meter; Channel
indicator; Dynamic squelch control; TX/RX indica-
tor; Instant channel 9; RF and microphone gain; PA
mode. Dim: 7.6" w x 8.9" d x 2.6" h; 3 lbs ... **\$74.99**

PC-68LTD - Same basic features as the PC68XL
but with NOAA weather and alert **\$79.99**



PC-78XL 40 Channel AM Mobile - PLL synthe-
sized; Instant channel 9; Dynamic Squelch Control;
Microphone and RF gain; Delta tune; Noise blanker;
Automatic noise limiter; PA/CB switch; Dimmer
control; TX/RX LEDs; Antenna warning LED
Dim: 7.25" w x 8.63" d x 2.38" h; 4 lbs. 3 oz. **\$94.99**

PC-78LTD - Same basic features as the PC78XL
but with NOAA weather and alert **\$99.99**



PC-78 ELITE 40-Channel CB with Ergonomic
Pistol Grip Microphone - Combines CB and a 7
channel Weather Radio with alert. Enhanced night
vision display; Instant Channel 9; S/R/F/SWR meter;
RF and microphone gain; Delta tune. Switches for:
S/R/F/CAL/SWR, CB/WX/PA, NB/ANL, dimmer and
dynamic squelch control.
Dim: 7.6" w x 8.9" d x 2.6" h; 4 lbs. 3 oz ... **\$119.99**

PC-68 ELITE 40-Channel CB - Same looks and
features as PC-78 Elite but no Delta tune and SWR.
Dim: 6.2" w x 5.4" d x 2.1" h; 3 lbs. 11 oz ... **\$99.99**



PRO-510XL Compact 40 Channel AM Mobile
Incorporates state-of-the-art microelectronics into a
sophisticated Euro-styled 2-way CB unit. Front
mounted microphone, ANL Switch, S/R/F LED
meter. Dim: 4.5" w x 1.4" h x 7.5" d; 3 lbs... **\$39.99**

PRO-520XL Compact 40 Channel AM Mobile
Looks like 510XL. Instant channel 9 access; 4-seg-
ment S/R/F meter; TX LED; LED channel indicator;
RF gain; PA switch; Automatic noise limiter.
Dim: 4.5" w x 6.8" d x 1.38" d; 1 lbs. 10 oz. ... **\$54.99**

PRO-538W 40 Channel AM Mobile - Includes 3
weather channels. RF gain control; PA/CB switch;
Instant channel 19; TX/RX indicator; Front speaker.
Dim: 6.8" h x 2" w x 8.3" d; 2.6 lbs **\$59.99**

Price Guide
Used / Demo

Ham Radios

Antennas
Accessories

Antenna
Accessories

Publications

Other
Radios

Weather
& GPS

Audio / Video
& Tools

AES
Information

uniden

MARINE RADIOS



ATLANTIS-250 Handheld 2-Way VHF Marine Radio All US, international and Canadian marine channels. Durable, reliable for any marine activity. Waterproof (JIS4/CFR46 rating); 5/1W, switchable; Instant channel 16/9; Triple watch; All N.O.A.A. channels with Weather Alert; Backlit LCD and keypad; Memory channel scan; Flexible rubber antenna; NiMH and alkaline capability **\$99.99**

VOYAGER Ultra Compact VHF Handheld Marine Radio - All USA, Canadian and international channels; All N.O.A.A. channels with S.A.M.E. WX alert; Triple Watch Plus; Channel 16/9; Memory scan; 1/5W transmit; Backlit keypad and LCD; Rubber grips and seal; Flexible antenna. Meets JIS7 waterproof specifications. Comes with rechargeable Li-ion battery; AC/DC adapter and charging cradle. Dim: 3.8" h x 2.4" w x 1.3" d; 8.8 oz. **\$169.99**



MHS-350 Handheld Marine 2-Way VHF Radio - All USA/international and Canadian marine channels All N.O.A.A. weather channels with weather alert; S.A.M.E. (during a NOAA weather or emergency alert, a code will alert you to severe conditions in your immediate area); 1/5W output; Triple Watch Plus™ (monitor channel 16/9, another user selectable channel, plus WX alert); Large backlit LCD; Rubber grips and seal. Meets JIS7 waterproof specifications **\$149.99**

MYSTIC VHF Marine Handheld with GPS/DSC 5 Watts output; Integrated mapping WAAS GPS allows send, receive and mark directly on a map for accurate vessel or individual positions. Includes CD of all U.S. street data (up to 32MB can be loaded at any given time); Large VGA display for all charting, mapping and radio functions; Fully submersible construction; Supplied with Li-ion battery, AC/DC chargers and charging cradle. Dim: 6.9" h x 2.6" w x 1.4" d **Closeout \$269.99**



SOLARA-DSC 25W VHF Marine Radio - Full-featured, now includes DSC. All USA/International channels; Instant channel 16; 10 weather channels; Selectable 1/25W output; High visibility LED display; Front mounted speaker for improved sound quality; Transmit LED indicator; Weather resistant housing, microphone and connector **\$99.99**



OCEANUS-DSC Full Featured VHF Marine Radio - Ultra-compact, rugged construction saves space, allows for convenient mounting, and withstands the harshest conditions. All USA/international/Canadian marine channels, N.O.A.A. weather with scan and alert. Triple Watch Plus™ - monitor emergency channel 16 and 9, another user selectable channel plus weather alert; Quik Command™ one-touch channel 16/9 key on the durable, rubber grip microphone; Backlit keypad; Memory scan; 1 or 25W transmit; LCD and dimmer; External speaker jack; One switch PA operation **\$139.99**



UM-525 25W Marine VHF Radio with Loud Hailer - All USA/International and Canadian marine channels. Programmable scan and Triple Watch Plus™ emergency channel monitoring and NOAA emergency/weather alert with S.A.M.E. Bright 3 in. (diagonal) backlit LCD display; Built-in 30W loud hailer with intercom, PA and all pre-programmed fog signals; GPS intuitive; Scrambler capable; Class-D DSC with DSC polling capabilities; Speaker microphone with one-touch channel 16/9 key and up/down channel select **\$199.99**

UM-625C 25W VHF Marine Radio with Loud Hailer - All USA/International and Canadian marine channels. Programmable scan and Triple Watch Plus™ emergency channel monitoring; and NOAA weather alert with S.A.M.E. Bright 2.2 in. (diagonal) daylight viewable Color TFT display that is viewable from any angle in sunlight. Rugged construction and highest rated receiver performance (85dB intermod nom.); built-in 30W loud hailer with intercom, PA and all pre-programmed fog signals; GPS intuitive; Scrambler capable; Class-D DSC with all DSC polling capabilities; Speaker mic. with one-touch channel 16/9 key and up/down channel select **\$299.99**

ICOM
MARINE
RADIOS



IC-M302W02 VHF Marine Transceiver All International, USA, Canadian and WX channels and alert; Instant channel 16; 25W or 1W output; Dual/tri-watch; GPS connection; Large backlit LCD shows channel numbers and name up to 10 characters; Built-in DSC capability (send a formatted distress message); High sound pressure speaker; External speaker connection; Rugged, waterproof (JIS Grade 7); Includes hand mic, mounting bracket kit and DC power cable. Dim: 6" w x 2.6" h x 5.2" d; 1.8 lbs. **C/O \$159.99**



M-710 Marine SSB Transceiver - Rugged, 150W, 136 channels, 160 programmable memories. PC programmable; Large LCD with alphanumeric read-out. General version without 2182 kHz alarm, marine bands only **Special Order \$1399.99**

M-802 Marine SSB Transceiver w/DSP Large backlit Dot Matrix LCD. Built-in digital selective calling, one-touch e-mail and GPS input. RX: 0.5-29.99 MHz; TX: 6-2.99, 4-4.99, 6-6.99, 8-8.99, 12-13.99, 16-17.99, 18-19.99, 22-22.99, 25-27.5 MHz. Modes: J3E (SSB), J2B (AFSK), F1B (FSK), A1A (CW), M3E (AM, RX only). 1355 channels; 20/60/150W output. Dim: 9.2" w x 3.7" h x 9.1" d; 10.3 lbs. Control: 8.3" w x 4.4" h x 3.1" d; 1.2 lbs **Special Order \$1749.99**

IC-M32 VHF Marine Handheld All US, Canadian, international and WX channels with alert. Normal & priority scan; "Tag" scan system; 5 Watts; RX: 156.05-163.275 MHz; TX: 156.025-157.425 MHz; Dual/tri-watch; 7.2V 750mAh Ni-Cd battery; PC programmable. Dim: 2.4" w x 5.3" h x 1.6" d; 12.7 oz **C/O \$149.99**

IC-M72 Marine VHF Handheld More Power, now 6 Watts; Covers All International, USA, Canadian and Weather channels; Auto scan function (starts when no signal received) Auto WX scan and WX Alert function; Instant channel 9 & 16; Simple add/delete TAG scanning; Wide Angle backlit LCD; Battery life indicator and auto power saver; Submersible 4.9 ft for 30 minutes. Large capacity 2000mAh Lithium-Ion Battery. Impressive audio. Includes desktop charger, AC adapter, antenna, belt clip and hand strap. Dim: 2.06" w x 4.90" h x 1.8" d; 9.9 oz **\$199.99**



Shakespeare

4187



MARINE ANTENNAS

4187 Ratchet Mount - Stainless steel. 4-way ratchet design with handle for deck or bulkhead mounting. Standard 1 in. x 14 male threads. **\$39.99**

396-1 Center-fed 1/2-wave Coaxial Sleeve Antenna - A Basic one-section, 5 ft., 3dB antenna designed to reduce signal fading when working in rough seas. Widely used by the Coast Guard. Rated for 50W and 5 MHz bandwidth. Shakespeare white fiberglass; Brass and copper elements; Deluxe chrome-plated brass ferrule; 15 ft. RG-58 cable with PL-259. Use 4187 ratchet mount. **\$89.99**

420 Skipper™ Center-fed 1/2 Wave Coaxial Sleeve Antenna - Economical, a good basic one-section, 5 ft. 3dB antenna for steady, day-to-day cruising in calm to moderate seas. Includes a polycarbonate lift/lay deck mount, leveling plate and hardware. Rated 50W and 5 MHz bandwidth. White Shakespeare fiberglass; Brass/copper elements; Polycarb ferrule; 15 ft. RG-58 cable with PL-259. **\$84.99**

5101 Centennial™ End-fed Antenna with Matching Stub - High-end features in an 8 ft. antenna with a brass element and a smooth, high gloss, polyurethane finish that won't turn yellow in the sun. Rated 50W, 5 MHz bandwidth with 6dB gain. One section; Brass and copper elements; Chrome-plated brass ferrule with standard 1 in. x 14 thread. Includes 15 ft. RG-58 cable with PL-259 connector. Use with 4187 ratchet mount. **\$69.99**

5206-C End-fed Antenna, Matching Stub - Economical, lightweight and self-supporting. An 8 ft. one-section antenna for good communications where long range is not the predominant factor. Rated 50W, 3 MHz bandwidth and 6dB gain. White Shakespeare fiberglass; Chrome-plated brass ferrule; DC grounded. With 15 ft. RG-58 cable with PL-259. Use with 4187 ratchet mount. **\$59.99**

5202 Collinear-phased 5/8 Wave Elements - A rugged, professional quality 8 ft. one-section antenna featuring a heavier duty radome and tough brass and copper construction for maximum efficiency and extra range. Rated 50W, 3 MHz bandwidth and 6dB gain, DC grounded. White Shakespeare fiberglass; Chrome-plated brass ferrule; DC grounded. With 20 ft. RG-58 cable with PL-259. Use with 4187 ratchet mount. **\$109.99**

5215 Squatty Body™ VHF Marine Antenna - A favorite with Sailboat owners, this light weight, low profile, stainless steel antenna was specially designed for masthead mounting. One-section, end fed 1/2-wave, 36 in. long. Rated 50W, 7 MHz bandwidth and 3dB gain. It features a hermetically sealed, tin-plated copper wire coil, stainless steel body and whip. SO-239 connector and stainless steel "L" bracket mount. **\$49.99**

MIDLAND® NT-1 NAUTICO™1

VHF Marine Handheld
Closeout **\$49.99**

Features:

- 88 Channels: USA, Canada and International
- 10 NOAA Weather Channels
- 5W power; up to 14 mile range
- Channel 16 Emergency button
- Auto-Squelch
- Scan • Monitor • Dual watch • Call Alert
- LCD Display • Keypad lock
- Battery level indicator • Powered by 4 AA batteries • Includes watertight bag
- Dim: 4.8" h x 2.3" w x 1.5" d; 4 oz.

AVP-5 Accessory kit - Includes Microphone headset, Rechargeable NiMH battery, AC and DC adapters, mount and holder. .. **C/O \$24.99**



AIRCRAFT RADIOS

A-24LI Airband HT

Easy to operate featuring a large, clear LCD. The large keypad provides user friendly operation. Stores the last 10 channels used and is easy to recall those channels by pushing the "flip-flop" recall buttons. The DVOR mode shows the radial to or from a VOR station and the CDI mode shows the course deviation to/from a VOR station. ANL (auto noise limiter) for noise reduction. RX: 108-136.975 MHz, WX: 161.650-163.275 MHz, TX: 118-136.975 MHz, Output power: 5W PEP, 1.5W carrier. Dedicated 121.5 MHz emergency key. NOAA marine weather channels. Record and play back conversations with the built-in recorder. Convenient for carrying with supplied belt clip. Water resistant, IPX-4 grade, allows safe operation in rain. 200 alphanumeric memories; PC programmable. Includes 7.4V 1800mAh Li-Ion battery pack.

Dim: 2.1" w x 5.1" h x 1.4" d; 15.2 oz. **\$379.99**

YAESU

VXA-710 Airband Transceiver

VOR and CDI display with OBS on NAV. RX: Airband 108-137 MHz, NAV 108-118 MHz, FM broadcast 88-108 MHz, US BRS band with CTCSS/DCS, NOAA weather with NOAA severe weather alert. Full 5W TX output power (1.5W carrier); 160 memory channels; Large, bright screen with signal strength indicator. Multi-color strobe LED for status indication and emergency light. Totally waterproof and submersible. Includes Li-Ion battery pack, wall charger, antenna, and headset cable. Dim: 2.25" w x 3.75" h x 1.25" d and weighs 9.9 oz. **\$359.99**



FRS RADIO No license required - perfect communications for Sportsman, Families, Clubs, Hobbies, Boating, Camping, Fishing, Hunting.

GMRS RADIO License required - immediate family members are eligible to operate under the license. Others (your employees, friends, associates, etc.) must each obtain a license before they can operate in the GMRS, even if they are just operating one of your own radios.

MIDLAND®

GXT-650VP4 FRS/GMRS

Handhelds - 22 channels (7 FRS/GMRS, 7 FRS and 8 GMRS) and including Weather Alert Radio with automatic alert for severe weather and hazard information, 24/7. Maximum FCC allowable 5 Watts of power for up to 16 mile range in open areas with little or no obstructions. Selectable Hi/Med or Low power settings. 121 Privacy Codes and 5 Call tones; Animal Call Sounds for Deer, Turkey, Goose, Owl and Duck; Backlit Display; eVOX; Vibrating Alert; Channel Scan; Silent operation turns off tone for quiet operation; (Auto) Squelch; Keypad Lock; Monitor; Microphone and Headphone Jacks; Water Resistant; Auto Battery Save; Battery Low Indicator; Roger Beep. Operates on 4 "AA" batteries (not included). Dim: 4.12" h x 2.37" w x 1.37" d. Pair of Radios including Microphone Headset. **\$89.99**



LXT-210VP GMRS Handhelds - 22 channels (7 FRS/GMRS, 7 FRS, 8 GMRS). Channel Scan; Stealth (Auto) Squelch; Silent Operation; Keypad Lock; Call Tone; Mic and Headphone Jacks; Water Resistant; Roger Beep; Channel Scan; Auto Batt. Save. Comes with rechargeable NiMH battery packs and AC plug-in charger. **Closeout PAIR \$39.99**

ICOM

IC-F21GM FRS/GMRS Radio

15 channels, 7 shared FRS channels. Power: 4W with range up to 5 miles depending on operating environment. All channels are pre-programmed allowing out-of-box operation, only a simple license required. Dim: 2.1" w x 5" h x 1.5" d, 10.6 oz. each **\$129.99**



News as it happens! Tune in Police, Fire, Public Service, Ham Radio, Military, Weather, Racing and more! A selection of Handhelds, Base/Mobiles to fit your needs.

uniden Bearcat Compact Handheld Scanners



BC-72XLT Compact Handheld Scanner (Great for NASCAR) – 100 Channels/10 Banks; Covers the most interesting "action" bands where you can hear Police, Ambulance, Fire, Amateur Radio, Public Utilities, Weather, and more! Covers 25-54, 108-174, 406-512 MHz; 10 Programmable Search Ranges find unlisted frequencies in use in your area; 6 Preprogrammed Service Searches preset in separate Police, Fire/Emergency, Aircraft, Ham, Marine (by channel) and Weather banks to make it easy to locate specific types of calls; Close Call™ RF Capture Technology instantly tunes to signals from nearby transmitters; Backlit Display for low light Conditions; Priority Scan to scan the channels you have designated as priority channels; Delay helps prevent missed replies during 2-way conversations; 2 AA battery operation: Alkaline or rechargeable (charges while in the scanner). Dim: 2.75" w x 4.5" h x 1.75" d; 6 oz. **\$99.99**

BC-95XLT Handheld Scanner with 800MHz Coverage – 200 Channels/10 Banks; Covers the "action" bands 25-54, 108-174, 406-512, 806-956 (excluding Cellular); 10 Programmable Search Ranges; 6 Preprogrammed Service Searches; Close Call™ RF Capture Technology; Priority Scan; Delay; Backlit Display. Dim: 2.75" w x 4.5" h x 1.25" d; 6 oz. **\$119.99**

BC-246T Handheld Scanner – 1600 Channels typical/2500 maximum; TrunkTracker III Technology (Motorola, EDACS and LTR systems); Covers 25-54, 108-174, 216-225, 400-512, 806-956 & 1240-1300 MHz (excluding Cellular); Dynamically Allocated Channel Memory makes it easier to program and use without wasting channels; Close Call™ RF Capture Technology; Alpha Tagging for Systems, Channel Groups, Channels, Search Ranges, and SAME Groups; S.A.M.E. Weather Alert (Specific Area Message Encoding) – during a NOAA Weather or Emergency Alert, a code for your specific location will alert you to severe conditions in your immediate area; 10 Custom Search Ranges; Preprogrammed Service Searches; Automatic Repeater Reverse automatically tunes to the Repeater Output Frequency when it finds a transmission on a common Input frequency; DCS/CTCSS; Rapid Decode instantly detects and displays the Subaudible Tone; Pager Skip eliminates transmissions on common pager Frequencies during Search and Close Call Operation; Channel Alert indicates when specified channels become active; Backlit Display adjustable to turn on when Squelch opens, or any key is pressed (or Manually); PC Control: includes a PC Cable to transfer information from your computer to scanner. Dim: 2.5" w x 4.5" h x 1.75" d; 6 oz. **\$229.99**

BR-330T Racing Sport Handheld Scanner with Race Track Operation – Coverage: 1 MHz to 1.3 GHz (excluding Cellular); 2500 Dynamically Allocated Channels; Preprogrammed Coverage of Over 400 Cities; TrunkTracker III (EDACS, MOTOROLA, E.E. JOHNSON); Race Track Operation for easy programming and selection of the race and drivers you want to listen to; Close Call™ RF Capture Technology; Search with Scan; DCS(104)/CTCSS(50) Rapid Decoding; Fire Tone-Out; Extended Quick-Key Operation; Alpha Tagging; Built-In Bar Antenna For AM broadcast. Dim: 2.4" w x 5.35" h x 1.22" d; 0.6 lbs. **Closeout \$279.99**

BCD-396T Compact Scanner – Continuous Band Coverage 25 MHz to 1.3 GHz (excluding UHF TV and Cellular); 6000 Dynamically Allocated channels; 400 cities preprogrammed; TrunkTracker IV (Motorola APCO 25 Digital, Motorola, EDACS, LTR); Close Call™ RF Capture Technology; S.A.M.E. Weather Alert; Fire Tone-Out; Alpha Tagging; 100 Quick Key System; Audio AGC; Automatic Digital Threshold; Search with Scan; DCS/CTCSS Rapid Decode; PC Control (Software Included). Dim: 2.4" w x 5.35" h x 1.22" d; 0.6 lbs. **\$549.99**

SC-230 Racing Sport Handheld Scanner with Race Track Operation – Covers: 25-54, 108-174, 216-225, 400-512, 806-956, 1240-1300 MHz (excluding Cellular); 1600 Channels/2500 maximum; Dynamically Allocated Channel Memory; Race Track Operation; Close Call™ RF Capture Technology; Alpha Tagging; Quick Key System Access; S.A.M.E. Weather Alert; 10 Programmable Search Ranges; 11 Preprogrammed Service Searches; Priority Scan; Attenuator cuts down on interference from strong, nearby signal sources; Delay; Backlight on Squelch; 2 AA battery operation, Alkaline or rechargeable (batteries can be charged while in the scanner); PC Interface provides both programming and remote control of scanner features from a PC (software included); On-Air Programming (separate transmitter required) makes programming multiple units a snap – just transmit the driver information using a PC and transceiver, and all scanners update at once. Dim: 2.9" w x 4.6" h x 1.4" d; 7.8 oz. **\$199.99**

uniden Base/Mobile Scanners



BC-340CRS
BC-370CRS

BC-340CRS CRS Clock Radio Scanner with 10 Channels in 10 Banks – Covers: 25-54, 108-174, 406-512 MHz. Service Search; Weather Scan; AM/FM Radio; Alarm Clock with Snooze; Public Safety Scanner **\$99.99**

BC-370CRS CRS Clock Radio Scanner with 300 Channels in 10 Banks Covers: 25-54, 108-174, 225-380, 406-512 MHz, 806-956 MHz (excluding cell). All Hazard alert; Atomic Clock; Service Search; Weather Scan; TV Audio 2-13; AM/FM Radio; Alarm Clock w/Snooze; Public Safety Scanner **\$139.99**



BC-350C 800 MHz Base and Mobile Scanner Coverage: 25-54, 108-174, 406-512 and 806-956 MHz (excluding cellular). 6 Preprogrammed service banks; 13 preset search bands; 100 user-programmable memories; 100 channels-per-second scanning speed; Search lockouts; luminescent backlit LCD screen. Includes mounting bracket, AC adapter, DC power cable and vehicle power plug. Dim: 5.2" w x 1.6" h x 6.5" d; 1.6 lbs. **\$99.99**



BCT-8 BearTracker™ Warning System with 800 MHz TrunkTracker III – Coverage: 25-54, 108-174, 400-512 and 806-956 MHz (excluding cellular). 250 channels in 5 Banks, 5 priority channels; Trunking (Motorola® Analog, EDACS®/EDACS® SCAT, LTR®); Service Search/highway patrol frequencies preprogrammed by state; 100 channels per second scanning with search lockouts; Priority scan; BearTracker™ Warning System alerts to highway patrol frequency activity within 3 miles; Backlit LCD. Dim: 7" w x 2.5" h x 6" d; 4.9 lbs. **\$179.99**

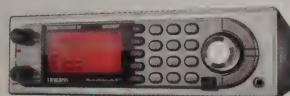


BCT-15 BearTracker™ Mobile Trunking Scanner with GPS Support – Alerts you to activity on Highway Patrol link frequencies within about 3 miles of your location. Close Call™ RF Capture Technology - tunes to signals from nearby transmitters. 2500 Dynamically Allocated Channels; Up to 400 Systems; 100 System Quick Keys; TrunkTracker III - EDACS, MOTOROLA, E.E. JOHNSON; Location-Based Scanning; Temporary Lockout; Dangerous Crossing, Dangerous Road and POA Alert; Public Safety Scanner **\$239.99**

Price Guide
Used / Demo
Ham Radios
Ham Radios
Accessories
Antennas
Antenna
Accessories
Publications
Other
Deliver
Weather
& GPS
Audio / Video
& Tools
AES
Information



IC-998T 500 Channel Base/Mobile Scanner
TrunkTracker III; Covers: 25-54, 108-174, 216-512
and 806-956 MHz (excluding cellular); 10 banks/50
channels; AutoStore; TrunkTracking™ (Motorola,
DACS & LTR); 1000 talk group ID's (10 lists/10
banks); DCS/CTCSS; Conventional and trunked
search; Programmable search and delay; Weather
hams search with S.A.M.E. alert; Priority scan. Includes
AC adapter, DC Power Cable with auto power plug.
Dim: 10.5" w x 7.3" d x 3.5" h; 3.8 lbs **\$209.99**



ICD-996T Mobile Trunking Scanner with GPS
Support & APCO-25 - 6000 Dynamically Allocated
channels; Location-Based Scanning; APCO-25
Digital; 100 System Quick keys; Dual-Color Display;
Temporary Lockout; Dangerous Crossing, Road and
Off Alert; DIN-E Mounting; Multi-Site Trunking;
Close Call™ RF Capture technology; Public Safety
Scan. Dim: 7.2" w x 5.9" d x 2.2" h; 3.4 lbs **\$549.99**



ALINCO **WIDE BAND RECEIVERS**
DJ-X7T Wideband Receiver
Covers 100 kHz to 1299.995
MHz (less cellular) in AM, FM
wide and FM narrow modes. The
large, illuminated, easy-to-read
LCD display shows frequency
information, the operating mode
and memory channel. Features
include: 1000 memory channel,
four user-selectable antenna
choices (SMA flexible whip, internal AM and SW
bar antennas, or the earphone cable. Comes
with an AC charger that can charge the supplied
Lithium Ion battery and lets you listen at the
same time. The DJ-X7T can also clone to other
DJ-X7 units through an optional cable.
Dim: 2.4" w x 4" h x 0.7" d, 3.7 oz **\$169.99**

DJ-X30T Wideband Receiver
Covers 100 kHz to 1299.995
MHz (less cellular) in AM, FM
wide and FM narrow modes. FM
stereo mode is available via the
earphone jack. 1000 alphanumeric
memories in 10 banks,
and 5 scan modes. Listen to
AM, FM and TV stations, the
shortwave world, aircraft, business
communications, the ham
bands, fire, public safety, traffic
and more. A selectable illuminated
LCD keyboard system
allows you to easily enjoy many advanced
features, including whether or not you want the
keypad mounted on the radio. A menu of selectable
parameter settings and the easy-to-use
design enables customizing and programming
frequencies to suit your individual preferences.
Uses "AA" batteries. Includes belt clip, hand
strap, face panel, SMA antenna. Dim: 2.28" w x
1.89" h x 1.24" d, 5.3 oz **\$199.99**



ICOM **HANDHELD RECEIVERS**



R-3-26 Communications Receiver - Wideband
coverage from 0.5 to 2450 MHz (cellular blocked),
450 alphanumeric memories. Features a 2 in. TFT
color display. Receive favorite TV shows, scan for
and monitor wireless cameras. Display to a large
monitor or recording device with A/V output.
Signal strength and band scope functions. CTCSS;
PC programmable; Lithium-ion rechargeable battery.
Dim: 2.4" w x 4.72" h x 1.28" d; 10.6 oz @ **\$334.99**

R-5-06 Super Wideband Handheld Receiver
Covers 495 kHz to 1309.995 MHz (cell blocked).
Listen to AM/FM broadcast radio, police, fire, military,
aircraft, amateur bands, and more. Preprogrammed TV and SW memories. Weather
alert. Large, backlit LCD shows frequency, operating
and battery status, signal strength and alphanumeric
memories of the 1250 memories (200 auto-write scan
and 25 scan edge pairs). DMS; CTCSS/DTCS;
Internal bar antenna; PC programmable; Cloning;
Weather resistant; Rechargeable Ni-Cd battery; DC
jack. Dim: 2.25" w x 3.4" h x 1" d; 6 oz. @ **\$189.99**

R-20-06 Wideband Handheld Receiver - Covers
0.15 to 3304.99 MHz (cellular blocked), 1250 memories.
Perfect for AM/FM radio, TV sound, monitoring
boaters, aviation, conventional public safety
and many other commercial services. Multiple scan
functions with 100 ch./sec. scan and VSC which
opens squelch only on modulated signal detection.
Dual watch; Built-in 4-hour IC audio recorder; Auto
squelch; CTCSS/DTCS & DTMF decode; RF gain
and Attenuator; Noise blanker and Automatic Noise
Limiter; AF filter; Bandscope; Auto Frequency
Control function; Offset capability for semi-duplex
channel monitoring; Back-lit keypad and dot-
matrix LCD with programmable channel names
(up to 8 characters); Internal bar antenna for MF
reception, BNC antenna connector; CLV PC control
capability; 11-hour Lithium-ion rechargeable battery.
Dim: 2.28" w x 5.5" h x 1.22" d @ **\$484.99**

COMMUNICATIONS RECEIVER



R-75 HF + 50 MHz All Mode Communication
Receiver - Covers 0.03 to 60 MHz, all modes, 101
memories. Conventional tuning and direct input via
keypad. Alphanumeric readout with bar S-meter;
DSP; Two-level preamp; Noise blanker; Synchronous
AM detection; Twin passband tuning; Front speaker;
Record output and tape recorder activation jack;
High/low-Z antenna inputs; Filter options. Operates
from 13.8V DC or supplied 110V AC adapter.
Dim: 9.5" w x 3.75" h x 9" d; 6.6 lbs **\$599.99**

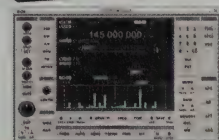
• Price after mail in rebate (USA only); rebates and freebies may expire 6/30/07.
• Price after mail in rebate (USA only); rebates starts 4/1/07 and may expire 6/30/07.
Please call/web for current price and promotions.

WIDE BAND RECEIVER



R-9500-02 Super Performance Multiple
Function Wideband "measuring" Receiver
Covers 0.005 to 3335.000 MHz (cellular blocked), in
USB, LSB, CW, FSK, WFM & AM modes with 1020
alphanumeric memories. Multiple scanning functions.
Many normal and wide spectrum scope functions
display on the 7-inch wide multi-function
TFT LCD. Five roofing filters before the first amplifier,
dual independent 32-bit floating point DSP
processors and digital I.F. filter. Noise Blanker; Voice
synthesizer; Digital Voice recorder; USB connector;
Receive assist functions. Dim: 16.6" w x 5.8" h x
13.3" d; 44 lbs **Special Order \$13500**

WIDE BAND PC RECEIVER



PCR-1500-25 Computer Controlled Wideband
Receiver/Scanner - Simple connection to your PC
via a USB cable. Wide frequency coverage from
0.01-3300 MHz (less cellular). Modes of reception
include AM, FM-Wide, FM-Narrow, SSB and CW.
(CW and SSB up to 1300 MHz only). Up to 25 channel
activities can be observed on the multi-channel
monitor screen at a glance. Received audio can be
stored on the PC with WAV format. Choose from
three different screens: "Communications Receiver"
(shown), "Component-style" and "Compact".
Includes CTCSS/DCS, pocket beep, IF shift, auto
memory write, AFC, AGC, weather alert, 24 digit
DTMF tone decoder and up to 2700 memory channels
per file. An optional plug-in DSP unit provides
Noise Reduction and Audio Notch Filter. Includes
AC adapter, whip antenna, USB cable and software CD.
Dim: 5.75" w x 1.6" d x 8.1" d; 2.6 lbs @ **\$479.99**

R-1500-05 Same as PCR-1500-25, but with Remote
Control Head @ **\$579.99**



PCR-2500-25 - Similar to the PCR-1500-25, but
features dual receive and is upgradable with the UT-
122 digital decoder, UT-106 AF DSP unit and UT-
108 DTMF decoder or UT-118 **D-Star** digital voice
decoder Free UT-122 @ **\$709.99**
R-2500-05 - Same as PCR-2500-25, but with Remote
Control Head Free UT-122 @ **\$879.99**

Price Guide
Used / Demo

Ham Radios

Ham Radio Accessories

Antennas

Antenna Accessories

Publications

Other

Weather & GPS

Audio / Video & Tools

AES Information



AR-8200 MK III-B
Compact Wideband
Receiver

Covers 0.5-3000 MHz (cellular blocked) in FM-W, FM-N, super narrow FM, AM-W, AM-N, SSB & CW modes and 1000 alphanumeric memories in 20 banks of 50 channels. Scans and searches at 37 steps per second. High stability TXCO; Dual VFOs and twin frequency readout; Alphanumeric display; Band scope; Bar signal meter; CTCSS decode; 20 second Record/Playback and voice inverter; Noise limiter; Attenuator; Computer control and programming capability. Includes: four NiMH 1500 mAh "AA" rechargeable cells (also operates on external 12VDC), AC charger, belt-clip, auto cigarette lighter power cord, removable AM & telescopic whip antennas. Dim: 2.4" w x 5.7" h x 1.0" d; 0.75 lbs. **\$569.99**



AR-5000A+3B
Wideband
Receiver

The choice for professionals, top-end hobbyists, government departments and armed forces for its amazing sensitivity and strong signal handing capability. Covers 10 kHz to 2.6 GHz (less cellular) in AM, FM-N, FM-W, LSB, USB and CW modes with 2000 multifunction memories in 20 banks of 100 memories. Six bandwidths of 3, 6, 15, 30, 110 and 220 kHz. Sophisticated multiple scanning functions. Noise Blanker, AFC and AM Synchronous Detection. Operates on 12-16VDC @ 1A. Dim: 8.5" w x 4" h x 10.2" l, 7.8 lbs. **Special Order \$2599.99**



AR-8600 MK II-B
Wideband
Receiver



Extremely versatile, use virtually anywhere. Coverage: 530 kHz to 3000 MHz (cellular blocked). All modes, including SSB and with programmable tuning steps in multiples of 50 Hz in any mode and TXCO stabilized. 1000 memories (20 banks); Programmable scan and search. Multi-section backlit LCD; Numeric keypad, Navigation keys; Rotary tuning control and separate controls for volume and squelch; Versatile band scope with save trace facility; Alphanumeric text comments; Write protect/keyboard lock; AFC; Noise limiter; Attenuator; Flash-ROM memory; Slot card sockets; BNC socket for 10.7 MHz; RS-232 port for computer control; 12 VDC. Includes: AC power supply, telescopic whip antenna, medium wave (AM) plug-in antenna and manual. Dim: 5.9" w x 2.2" h x 6.9" d; 4.9 lbs. **\$899.99**

SDU-5600
Spectrum
Display Unit



Accessory for the AR-8600MKIIB and others with a 10.7 MHz I.F. Provides selection of center frequency, receive mode, etc. High resolution, 5 in. color TFT display provides clear, crisp graphics. "Waterfall" display function, FFT signal processing and analysis and DSP. Remote control via PC. Dim: 8.7" w x 4.7" h x 7.7" d; 5.1 lbs. **Closeout \$1199.99**



LA380
WIDE BAND
ACTIVE LOOP
ANTENNA



A wide range, 10 kHz to 500 MHz single loop active receiving antenna with five selectable presets and ranges and only 1 ft. in diameter. Incorporates a built-in high-gain amplifier 20 dB for 10 kHz to 250 MHz and variable tuning from 3 to 40 MHz and fixed tuning from 60 kHz to 3 MHz and 40 to 50 MHz. A BNC output jack with a 3.3 ft. BNC to BNC patch cable is provided. Operates from 12 VDC or 110V using the supplied AC wall adapter **\$379.99**



AH-7000

Wideband Antenna
This DISCONE design provides wide 25 to 1300 MHz coverage. Stainless steel, 5.5 ft. high and attaches to a standard mast (not supplied) with two supplied U-bolts. Comes with a preassembled 50 ft. cable with type-N connectors... **\$169.99**

LARGE STOCKS • We are in a position to take care of your needs out of our Regular Inventory.



VR-5000 Multi-mode Scanning Receiver

Covers 100 kHz-2.6 GHz (cellular blocked) in AM, FM-N, FM-W, LSB, USB and CW modes with VFO or direct keypad frequency entry and 2000 memories (10 banks) with alphanumerics. Dual receive; Versatile scanning system with automatic memory loading; Bandscope; World clock with time zone map. Dim: 7.1" w x 2.8" h x 8" d; 4.2 lbs. **\$569.99**

VR-500 Mini-Receiver

Covers 100 kHz to 1300 MHz (cellular blocked) in CW, SSB, AM/FM wide and narrow modes. Includes AM/FM broadcast, HF SW to 16 MHz, VHF and UHF TV bands, VHF AM aircraft band, plus commercial and public safety frequencies. Keypad entry; 1000 memory channels, 100 "skip" and 10 search memories, 100 dual watch memories; Priority. Uses two "AA" batteries. Dim: 4.2" h x 2.2" w x 1" d; 7 oz. **\$279.99**

VR-120D Mini-Receiver

Covers 100 kHz to 1300 MHz (cellular blocked) in AM/FM wide and narrow modes. Includes AM/FM broadcast, HF SW, VHF/UHF TV, VHF AM aircraft plus commercial and public safety. 640 memories; Scanning; 4-button operation; AC or DC operation with optional adapter cable. Dim: 3.3" h x 2.3" w x 1" d; 6.9 oz. **\$179.99**



VR-5000



VR-500



VR-120D



GS350DL



GS350DL \$99.99

- AM/FM/shortwave reception
- Aeronautical design with rugged body
- Line-level output, separate bass, treble



G1100

G1100 \$49.99

- AM/FM and 10 Shortwaves
- Analog tuning with digital frequency
- Digital clock, sleep function, snooze



GM300

GS \$149.99

- AM/FM-stereo/shortwave coverage
- 700 programmable memory presets
- Clock, sleep timer and alarm

GM300 \$29.99

- AM/FM7 Shortwave bands
- Clock, alarm and sleep timer
- Rotary volume control

Grundig Radio Line by Etón www.etoncorp.com





ES-350DL DELUXE - Offers exceptional value and great reception of AM, FM and international shortwave. Incorporates an analog receiver with digital display of frequency and clock. A single-conversion superheterodyne circuit design, receives continuous shortwave from 2.9 - 27.4 MHz, covering all 13 international shortwave broadcast bands (11, 13, 16, 19, 22, 25, 31, 41, 49, 60, 75 and 90 meters). A wide and narrow switch on the front panel allows you to narrow the radio's bandwidth to reduce adjacent channel interference. A new SW/AM frequency lock circuit improves stability to reduce drift. There is a built-in 12/24 hour clock with 90 minute sleep timer. Uses a built in telescopic antenna for FM and shortwave plus a built in ferrite bar antenna for AM. On the back panel there's a 75 ohm antenna jack for FM and terminals for AM/SW wire antenna and ground. Side left and right line level outputs and a stereo/mono switch and a stereo earphone jack for private listening. A 4 inch speaker provides solid sound. Comfortable carrying handle. Requires (4) D or AA cells (not supplied), includes an AC adapter. Dim: 10.5" w x 6.5" h x 3.5" d; 3 lbs, 9 oz. **\$99.99**

GM-300PE AM/FM Shortwave Radio Weighs less than 5 ounces and small enough to fit in your pocket making it a perfect travel companion. Covers AM, FM-stereo and 6 Shortwave bands (41, 31, 25, 22, 19 and 16 meters). The telescoping and ferrite antennas provide great AM/FM reception for when camping, hiking, listening to sports, or just relaxing. Analog tuning with digital display that shows frequency, time, sleep time and symbols for sleep timer and alarm activation. Includes protective travel case and stereo earbuds. Powered by (2) AA batteries. Dim: 2.5" w x 4.5" h x 0.75" d; 4.5 oz. **\$29.99**

G-1100 AM/FM SW Radio - It's small enough to fit into your pocket, and capable of receiving AM/FM and 10 shortwave bands. Analog tuning with digital frequency LCD. Clock with alarm/snooze. Stereo via earphones. Uses (2) AA cells, includes protective case. Dim: 5.12" w x 3.15" h x 1.14" d; 7 oz. **\$49.99**

E-1 AM/FM/SW and XM Satellite Radio



*XM Radio requires a subscription, AUD CNP-2000 & AUD CNP-2000H, not included



E-100 Compact Portable Digital Radio - Covers: AM (530 to 1710 kHz), FM (87 to 108 MHz) and Shortwave (1.7 to 30 MHz). FM-stereo at earphone jack. Tunes via keypad entry and stores up to 200 of your favorite stations. Operation may be programmed to personal preferences and geographic location. Built-in digital clock with dual timers and snooze. Stereo/Mono switch; Tuning bargraph; Backlit LCD; Earphone jack; 3.0 VDC input jack; Flip stand. Includes wrist strap, protective case, (2) AA batteries and stereo earbuds. Dim: 4.75" w x 3" h x 1.1" d .. **\$99.99**

E-10 Portable Digital Radio - Coverage: AM/FM (stereo at earphone jack) and SW (1711 kHz to 29.999 MHz). Tunes via: manual tuning; direct keypad entry or scanning. Store up to 550 stations or use the ATS (Auto tuning system) for automatic memory storage of AM/FM stations. New "If Set" feature shifts the radio's IF to minimize interference during SW reception. Backlit LCD; AM 9/10 kHz and SW 1/5 kHz steps; Wide/narrow bandwidth; Fast/slow manual tuning; Hi/low tone control; External antenna jack; Flip stand; Antenna trimmer optimizes antenna. Uses (4) supplied rechargeable Ni-MH "AA" batteries. Includes, wrist strap, protective case, wind-up antenna, AM adapter and stereo ear buds. Dim: 7.5" w x 4.5" h x 1.2" d; 1.3 lbs. **C/O \$129.99**

G-5 World-Class Portable Radio - Covers long wave, AM, FM and shortwave. Dual conversion AM/SW circuitry for exceptional sensitivity and image rejection. Tuning is via auto-scan, manual scan, conventional tuning knob or direct keypad entry. Includes S.S.B. (Single sideband) reception and FM stereo is available through the earphone jack. 700 channel memory capacity with memory scan and auto tuning storage. 24 hour clock with alarm and sleep timer. Line Output jack for a tape recorder or external audio amplifier. The LCD display can be illuminated three different ways. Includes: Local/DX Switch, Wide-Narrow selectivity and external antenna jack. Requires (4) AA cells (not supplied), or supplied AC wall adapter/charger that also recharges NiMH AA cells (not included). Owner's manual, wrist strap, protective case, portable wire antenna and stereo earbuds included. Dim: 6.675" w x 4.125" h x 1.125" d; 12.2 oz **\$149.99**

Covers 100 kHz-30 MHz LW, MW, SW & FM (88-108 MHz) in AM, FM, SSB/CW modes, plus XM Satellite Radio* providing over a 100 channels of Music, News, Talk, and Sports programming. Dual conversion with digital PLL tuner and synchronous detector. Variable rate tuning knob, Direct keypad, Up/down buttons or Auto-tuning. Memory scan of with 500 user programmable alphanumeric plus 1200 user definable memories. Illuminated, 5.5 inch dot-matrix display; LCD S-meter; I.F. passband tuning; Dual programmable clock (WWV auto-setting); On/off timers; Stereo at headphone jack. Uses (4) "D" cells or included AC adapter. Dim: 13.1" w x 7" h x 2.5" d; 4.2 lbs **\$499.99**



FR-200 Emergency Radio - An analog portable that receives AM (530-1710 kHz), FM (88-108 MHz) and two shortwave bands. Features smooth, precise analog tuning with a concentric fine tune knob. Operates from a built-in wind-up generator charging the supplied NiMH cells, 4.5 VDC or (3) AA cells. Cranking the generator for 90 seconds will give one-hour of operation. Built in 2.5 in. speaker, mini-earphone jack, emergency light and padded carry handle. Includes a canvas carry case with shoulder strap. Dim: 6.75" w x 5.75" h x 2.12" d; 10 oz. **\$39.99**

FR-250 Emergency Radio - Receives AM (530-1710 kHz), FM (88-108 MHz) and 7 shortwave bands. Powered from a built-in hand-crank power generator with rechargeable Ni-MH battery pack, (3) AA batteries (not included) or AC adapter (not included). Built-in triple LED flashlight, emergency siren and cell phone charger. Main tuning knob with a precise fine-tuning control. Built-in 2.5 inch speaker and rear panel 3.5 mm earphone jack. Built-in antennas: telescopic for FM/SW, AM ferrite bar. **\$49.99**

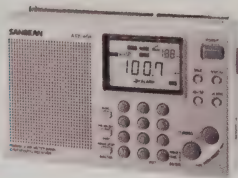
FR-300 Emergency Radio - Looks, features and functions same as the FR-250. Does not cover SW bands but includes TV-VHF audio channels 2-13 and 7 NOAA weather channels with WX Alert. **\$49.99**

FR-400 Emergency Radio - An affordable portable that receives AM (530-1710 kHz), FM (88-108 MHz), VHF TV audio and 7 NOAA weather channels. Versatile - powered from the crank generator which charges the supplied NiMH cells, (3) AA cells (not supplied) or 4.5 VDC from the included 120V AC adapter. Cranking at two turns per second for 90 seconds will provide 40-60 minutes of operation. Built-in the side of the radio is a triple LED light. Two white LEDs provide illumination, and a blinking red LED is for signaling. Additionally, there is a loud siren function. Three rear panel jacks are provided for earphone output, 4.5 VDC input and phone charger output. The FR-400 has the capability of recharging certain cell phones using included cellular power adapters. Includes a black canvas carry case, AC adapter, owner's manual, Red Cross Disaster Preparedness Guide. Dim: 8.7" w x 4.5" h x 2" d; 1.3 lbs. **\$59.99**



CNP-2000 XM Radio Tuner - Delivers XM satellite radio programming to a wide array of existing XM Ready products including home stereo and home theater systems, DVD players, bookshelf systems, boomboxes, clock radios, and portable audio devices that have a passport slot **\$29.99**

CNP-2000H Home Dock Unit/Antenna Provides CNP-2000 connectivity to XM Ready devices without a passport slot **\$29.99**



ATS-404 PLL Synthesized World Band Receiver Coverage includes AM (520-1710 kHz), 14 SW bands, or continuous 2.3 to 26.1 MHz tuning. Tune via Up-Down buttons; Automatic scan tuning; Keypad entry or the 45 Memory presets. Backlit LCD shows frequency or 12/24 hour clock-timer with alarm and snooze. Other: FM stereo with earphones, MW 9/10 kHz, low-battery indicator, lock; dial lamp switch, stereo-mono switch, tune LED, flip-out tilt-stand and 6VDC jack. Includes carrying case and stereo earbuds. Uses (4) "AA" batteries. Dim: 6.5" w x 4" h x 1.5" d; 10 oz. **\$79.99**



ATS-505 PLL Digital World Radio - Coverage: LW (153-279 kHz), AM (520-1710 kHz), SW (1711 kHz - 29,999 MHz) & FM (87.5-108 MHz). Tune via Manual tuning knob; Up-Down buttons; Automatic scan tuning; Keypad entry or from the 45 memories. SSB reception with fine tuning. Other features: Stereo via earphones, Auto Preset System, MW 9k/10k switch, lock, tone control, Local/DX switch, backlit LCD, 12/24 hour clock with alarm and snooze. Includes AC adapter, the ANT-60 wind-up antenna, carry case & earphones. Uses (4) "AA" batteries. Dim: 8.5" w x 5.3" h x 1.6" d; 24 oz. **\$129.99**



ATS-606A PLL World Band Receiver - Coverage: 153 kHz to 30 MHz, AM/FM with Manual or Keypad tuning. Backlit LCD; 54 memories; Scanning; Fine tuning; Dual digital clock-timer-alarm; FM stereo with earphones. Uses (3) "AA" batteries. Includes ANT-60 wind-up antenna, AC adapter and earbuds. Dim: 5.75" w x 3.5" h x 1.25" d; 1 lb. **\$139.99**

ATS-909 PLL World Band Receiver - Coverage: LW (153-519 kHz), MW (520-1710 kHz), SW (1711 kHz - 29,999 MHz) & FM (87.5-108 MHz). Tune via: Manual knob; Direct keypad entry; Auto scan. Manual up-down tuning or Memory recall. Wide/Narrow bandwidth switch and SSB/CW reception with fine tuning. Store 307 presets in Alphanumeric memories; RDS display of Station Name & Time. Other: MW 9k/10k switch; 12/24 hour time, (3) timers and sleep timer; Displays 42 city times; Recorder output. Uses (4) "AA" batteries. Includes AC adapter, ANT-60 wind-up antenna, stereo earbuds and carrying case. Dim: 8.5" w x 5.375" h x 1.375" d; 1.9 lbs. **\$249.99**



PT-80 ProTravel - German designed and radio-engineered by Sangean. This great looking travel radio has all the features a traveler will ever need. AM, FM, Longwave, and continuous shortwave coverage from 1711 to 29,999 kHz with SSB capability. Five tuning methods: Direct frequency access, Auto scan, Manual tuning, Memory recall from 45 presets, and Rotary tuning. Built-in 12/24 dual world time clock with alarm, snooze, and sleep timer. Snap-on leather case, AC adapter, earphone, and SW antenna included. Uses (4) "AA" batteries. Dim: 7" w x 4" h x 1.0" d; 1 lb. 2 oz. **\$159.99**



RCR-2 Digital Atomic Clock Radio - A combination of Atomic Clock function and sleek design. To ensure accurate time, the clock is adjusted by radio signals received from the U.S. atomic clock in Colorado. An easy-to-read LCD displays time, date, day of week, sleep, wake, and nap time. Dual alarms can be set and used independently with selectable days, with the option to wake to a radio buzzer alarm that starts softly, then gradually increases in volume. The AM/FM radio with ATS system locates stations and automatically sets up 14 preset memories. Dim: 7.5" w x 3" h x 5.25" d; 2 lbs. **\$69.99**



WR-1 High Fidelity Radio - This beautifully crafted AM/FM radio creates the warm rich tones normally found in only larger, more expensive home systems. A specially designed HI-FI circuit with 7W output, a custom made 3 in. speaker, and bass compensation combine in an attractive and acoustically corrected wood cabinet. No other radio will be found with a better sound quality at a comparable price. The walnut and black cabinet will accent any room. Headphone, record out & 12VDC input jacks. Dim: 9.4" w x 4.4" h x 6.6" d; 5.18 lb. **\$119.99**

DT-200V Broadcast and TV Band Receiver - Fits in shirt pocket or clips to belt. Covers AM and FM broadcast, plus audio from TV channels 2-13. LCD display, Up/Down tuning; 19 memories, Automatic shut-off; Built-in speaker; Stereo earphones. Uses (2) AA batteries. Dim: 4.375" h x 2.625" w x .75" d; 5 oz. **C/O \$64.99**

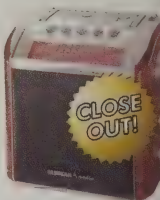


ANT-60 - Portable, wind-up, shortwave antenna for use with most shortwave radios. **\$13.99**



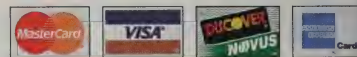
PR-D2 FM-Stereo/AM/TV Digital tuning Portable Receiver

A retro-1960's classic design with modern technology that come together in this stylish decorative portable/table-top radio. Attractive gold faceplate with simulated walnut exterior. Four tuning methods: Scan tuning, Rotary tuning, Manual tuning and 10 Memory preset tuning - also tunes TV channel audio. Clock feature with alarm. Rotary tuning knob, direct access buttons, and tone control. Full range 5 in. speaker, 1.5 in. tweeter and earphone jack. Beautifully crafted case with lighted display, illuminated presets. AC/DC operates on 110VAC or (4) "D" batteries. Dim: 7.2" w x 5.1" h x 7.5" d; 4 lbs. **Closeout \$89.99**



Our service is second to none.
Give us a call or email us at info@aesham.com with your inquiries.

ORDER ON-LINE!



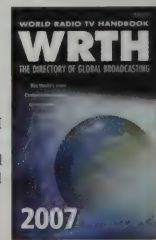
We accept I.M.P.A.C.® Government Credit Cards

USE YOUR CREDIT CARD



2007 Passport to World Band Radio
Everything you need to know about tuning in shortwave stations, countries, frequencies and times. Includes informative reviews on popular world-band radios, many antennas, and expanded station address lists. 592 pages.
IBS 2007 \$22.95

2007 World Radio TV Handbook
The world's most comprehensive and up-to-date reception guide to mediumwave, shortwave and FM broadcasting for the serious radio listener. Informational articles, operating hints and latest product reviews.
WAT 059979 \$29.95





ICF-SW11 Compact Analog Portable

Coverage: LW (141-290 kHz), MW (525-1620 kHz), FM (88-108 MHz) and nine Shortwave Bands: 4.75-5.06, 5.9-6.2, 7.1-7.35, 9.4-9.99, 11.6-12.1, 13.57-13.87, 15.1-15.8, 17.48-17.9 and 21.45 to 21.75 MHz. Easy analog tuning with LED tuning indicator; FM stereo available at headphone jack; 2-1/4 inch speaker; DC input jack; Flip stand; Wrist strap. Uses two "AA" batteries or 3 VDC.

Dim: 6.5" w x 3.75" h x 1.3" d; 12 oz **\$49.99**



ICF-SW35 Digital Portable - PLL synthesized, dual conversion superheterodyne (except FM band). Coverage: LW (150-285 kHz), AM (530-1710 kHz), FM (76-108 MHz) and SW (2250 kHz to 26.1 MHz). FM stereo at headphone jack. Tuning via: UP/DOWN buttons, 50 memory presets or automatic memory scan. Memories are in 5 banks of 10 presets each, are non-volatile and retained when changing batteries. Dial illumination button; Sleep button; Lock switch; 9/10 kHz MW step switch; 2.125" speaker; RF attenuator; Tone switch; Stereo earphone jack; Flip-stand. Uses three "AA" batteries or 4.5 VDC. Includes: cloth carry case, wrist strap and Shortwave Guide.

Dim: 6.7" w x 4.5" h x 1.4" d; 16 oz **\$89.99**



ICF-SW7600GR General Coverage Portable

Dual conversion superhet, microprocessor controlled and PLL synthesized. Covers 150 kHz to 29.999 MHz and 76-108 MHz FM with stereo at headphone jack. Tuning via: 10-key direct access keypad, manual, automatic scan and scanning of 100 memories. SSB/CW reception and AM synchronous detection. Multi-function LCD digital readout; 1/5 kHz step tuning; 9/10 kHz MW step; Dial light and LED "tune" indicator; 24-hour digital dual time clock with sleep timer; Record jack; Tone switch; 3 in. speaker; Keypad lock; External antenna jack; Uses four "AA" cells or 6 VDC. Includes: wind-up antenna, wrist strap, carry case and SW Guide. Dim: 7.6" w x 4.75" h x 1.3" d; 22 oz **\$159.99**



ICF-SW12 Shortwave Analog Clock Radio

For the traveller; compact size and protective lid. Coverage: FM, AM and SW bands (1-9) 4.75-5.06, 5.9-6.2, 7.1-7.35, 9.4-9.99, 11.6-12.1, 13.57-13.87, 15.1-15.8, 17.48-17.9 and 21.45-21.75 MHz. LED Tuning Indicator for precise center-frequency indication and accurate tuning; Bandspread; Sophisticated backlit LCD World Clock display; Built-in alarm with snooze function; Summer time adjustment; Built-in AM ferrite bar and telescopic FM/SW antenna; 1.8 inch speaker; Earphone jack; Shortwave Guide. Uses two "AA" batteries. Dim: 4.3" w x 3.1" h x 1.2" d; 8.2 oz **Closeout \$79.99**



ANTENNA SUPERMARKET

SHORTWAVE BROADCAST RECEIVING ANTENNA

EAVES TWIN The Eavesdropper Shortwave Broadcast Receiving Antenna - A 42 ft. long center-fed dipole with 8 automatic switching trap circuits which electrically separate the antenna segments - just tune your receiver to cover the 11, 13, 16, 19, 21, 25, 31, 41, 49, 60 and 75 meter short wave bands. May be installed as a "sloper", horizontal dipole or inverted "V".

Includes THE ZAP TRAPPER® electronic gas-tube lightning arrestor for receiver protection.

Completely assembled, ready to use. Uses heavy 14-gauge hard drawn stranded antenna wire and includes 100 ft. of 72Ω twin-lead transmission line and 50 ft. of 450Ω test support rope **\$89.99**

EAVES SO239 - Same as the Eaves Twin above, but not including twin-lead transmission line. Has a weather-proofed SO-239 connector to accept coaxial cable (not included) **\$89.99**

PALOMAR ENGINEERS VLF CONVERTERS



Hear the 1750 meter band, the navigation beacon band, WWVB, ship-to-shore communications, and the European LF broadcast band.

The VLF receives the entire 10 to 500 kHz VLF radio band and converts it to tune across 80 meters on a general coverage receiver or ham band transceiver. Dim: 2" h x 4.25" w x 5" d.

VLF-A - For Ham Band transceiver **\$99.99**

VLF-S - For General Coverage receiver **\$99.99**



REGENERATIVE SHORTWAVE RECEIVER

8100W - Listen to international shortwave broadcasts and hams on SSB/CW, RTTY packet and more. Coverage: all or part of 75/80, 49, 40, 30, 31, 20, 19, 17, 16, 15 and 13 meters in five bands. Using just a 10 ft. wire makes worldwide stations come in loud and clear. Vernier drive tuning; Bandswitch; Volume/RF gain controls; Aluminum cabinet. Requires 9V battery, earphones or plug-in speakers. Dim: 7" w x 2.5" h x 6" d; 1 lb. **\$99.99**

8100K Same, but in KIT form **\$69.99**

MFJ SHORTWAVE ACCESSORIES



1024 Outdoor Active Antenna - Covers 50 kHz to 30 MHz. A separate RF amplifier module with a 54 in. telescopic whip antenna mounts anywhere outside and connects by the supplied 50 ft. coax to the control unit inside. The control contains a gain control and 20dB attenuator and you can select between two receivers and an auxiliary antenna. Auxiliary input and output jacks. Uses 12VDC or 110VAC with an MFJ-1312D adapter (\$15.99). Dim: Control 6" w x 2" h x 5" d; Module 3" h x 4" w x 4" d **\$139.99**



1020C Indoor Active Antenna - Covers 300 kHz to 30 MHz in 5 bands with the top mounted 21 inch telescoping antenna. Improves indoor reception and functions as a preselector when using an external antenna system. Improves sensitivity, selectivity and reduces noise. Uses 9V battery, 9-18VDC or 110V with an MFJ-1312D adapter (\$15.99). Dim: 5" w x 2" h x 6" d. **\$89.99**



1040C All-Band Preselector - Improves reception while rejecting out-of-band signals and images on four bands: 1-3, 3-7, 7-18 and 18-54 MHz. Low-noise 20dB gain MOSFET amplifier with a gain control and 20dB attenuator handles a wide range of signal levels. Usable with transceivers up to 125W; a relay automatically bypasses the amplifier on transmit. Push buttons select 20dB attenuator, two antennas, two radios. Controls for delay, gain, band and tune. Unit is bypassed when off. Requires 9-18VDC or MFJ-1312D (\$15.99) **\$109.99**

Price Guide
Used / Demo

Ham Radios

Antennas

Antenna Accessories

Publications

Other Radios

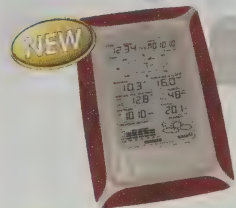
Weather & GPS

Audio / Video & Tools

AES Information



WEATHER STATIONS, etc.



WS-1612CH-IT Professional Weather Center

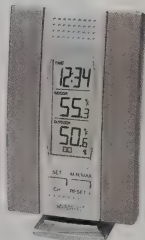
Operates wireless at 915 MHz from a remote sensor up to 330 ft. away.

Provides:

- Weather forecasting function with 3 weather icons and weather tendency indicator
- Records MIN/MAX temperature and humidity with time and date of recording
- Low/high outdoor temperature & humidity alarm
- Relative air pressure (inHg or hPa)
- Barometric pressure with 12 hour history graph (in inHg or hPa)
- Storm warning alarm
- Total rainfall (inches or millimeters)
- Wind speed (mph, km/h or m/s, and Beaufort scale); Wind chill (°F or °C); MAX wind speed with time & date of recording; high wind speed alarm; 16-step wind direction display
- Storage of 200 sets of history weather data recorded in 3-hour intervals; manual reset
- Selectable LCD contrast, Low Battery indicator
- Dim: Receiver: 8.9" h x 6" w x 1.25" d; Thermohygrometer: 2.25" h x 2.44" w x 6.18" d; Rain Sensor: 5.51" h x 2.75" w x 5.39" d; Wind Sensor: 9.84" h x 6.45" w x 7.58" d..... **\$139.99**

WS-7013BZ Wireless Digital Thermometer

Displays both indoor and outdoor temperatures (°F or °C) simultaneously. Outdoor temperature is transmitted up to 80 ft. to the main unit via a remote sensor which also has its own display for viewing at its remote location. Records minimum and maximum temperatures in memory; outdoor temperatures are time stamped. Includes a highly accurate Quartz Digital clock (not an atomic clock). Just install the included remote transmitter, and get both outdoor and indoor temperatures along with the time. Approx. 4.5" tall, desk or wall mount..... **\$19.99**



WS-7014CH Wireless Forecasting Station

Displays indoor and outdoor temperature plus indoor relative humidity. Forecast icons indicate Cloudy, Sunny or Rain. Wireless outdoor temperature sensor can be located 82 ft. away. Atomic Time clock. Uses (4) "AA" alkaline batteries. Dim: 5.43" h x 3.54" w x 1.18" d. Desk or wall mount..... **\$49.99**

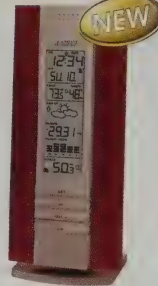


WS-7394U-CH-IT

Wireless Forecast Station
Operates wireless at 915 MHz with a range of up to 330 ft.

Provides:

- Weather forecasting function with 3 weather icons and weather tendency indicator
- Outdoor temperature (°F or °C)
- Indoor temperature (°F or °C) and relative humidity %
- Records MIN/MAX temperature and humidity with time and date of recording
- Barometric pressure with 12 hour history graph (in in. Hg or hPa); Barometric tendency arrow and Indoor comfort level icon
- Atomic time and date with manual setting; Automatically updates for Daylight Saving Time (on/off option); 12/24 hour time display; Perpetual calendar; Time zone setting
- Both Receiver and Sensor operate on (2) "AA" Alkaline batteries. Dim: Receiver: 8.75" h x 4" w x 1.5" d; Sensor: 5.05" h x 1.5" w x 0.83" d. Wall hanging or free standing; stand included..... **\$69.99**

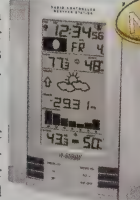


WS-8035U-SAL-IT

DLX Wireless Forecast Station
Comes with wireless outdoor thermometer and wireless outdoor relative humidity sensor with a 300 ft. range.

Provides:

- Digital Relative Barometric Pressure Readout with 24-hour History Graph (in/Hg or hPa), Trend Arrow and Forecast Icon
- Indoor and Outdoor Temperature (F or C) and Humidity (%RH)
- Indoor Comfort Level Icon
- Min / Max Temperature and Humidity with Time and Date Stamp
- Atomic Time and Date with Manual Setting
- Auto Update for Daylight Saving Time
- Time Alarm with Snooze
- 12 or 24 Hour Time Display
- Perpetual Calendar
- Time Zone Setting
- US-Time Zone Map
- Moon Phase Indicator
- Wall Hanging or Free Standing
- Receiver & Sensor use (2) AA alkaline batteries
- Dim: Receiver 10" w x 7.5" h x 1" d; Sensor 4.75" h x 2.87" w x 2.36" d..... **\$89.99**



WS-9004U-IT

Wireless Rain Gauge
With wireless self-emptying bucket. Shows total rain and rainfall for the last 24 hours.

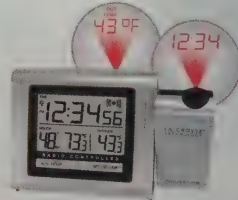
- User defined rainfall alarm from .050" to 4.00" over a 24 hour period
- Current rainfall indicator; light rain and heavy rain indicators
- Wall hanging or free standing
- Transmission Range: 330 ft.
- Receiver and sensor both use (2) AAA alkaline batteries; last up to 36 months
- Dim: Receiver 3.85" h x 2.35" w x 0.83; Sensor 3.5" h x 5.7" w x 2.2" d..... **\$29.99**



WS-8117U-OAK Digital Atomic Wall Clock

Extra-large digital display shows 12/24-hour Time, Date, Weekday, °F or °C Indoor Temperature and Wireless Outdoor Temperature transmitted from the included Wireless Remote Sensor located up to 82 ft. away. Clock sets automatically to WWV radio signal for the most accurate time. Includes daily alarm setting with snooze, a calendar display with day abbreviations in choice of English, French, Spanish, or German, 13 time zone settings, daylight saving time ON/OFF, 8 moon phase icons. Mounts on wall, or extend the integral foldout stand to use it as a freestanding unit on a table or shelf. Both the clock and remote sensor use (2) "AA" Alkaline batteries (not included). Attractive oak finish.

Dim: Clock 12.2" w x 8" h x 1.18" d; Sensor 1.57" w x 5.04" h x 0.9" d..... **\$39.99**



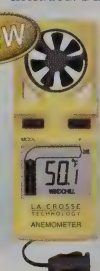
WT-5120 Projection Atomic Alarm Clock with Indoor Temperature, Humidity and Wireless Outdoor Temperature

Displays very accurate 12 hour time, indoor temperature, indoor humidity, plus wireless outdoor temperature on its large LCD display. In addition, it projects an alternating pattern of time and outdoor temperature on the ceiling or wall. Alarm and snooze. AC Adapter Included. Dim: 3.6" h x 5.52" w x 1.9" d..... **\$39.99**



EA-3010 Handheld Anemometer

Check local wind speed and temperature. Wind mode indicates digital maximum or average wind speed (mph, m/s, km/h, knots) digitally plus Beaufort on a 0-12 bargraph scale. Temperature mode shows digital temperature & wind chill. (°F or °C). LED back light and battery saving auto-off. Weather Resistant Case, neckband for easy carrying. Powered by a single CR2032 button battery. Dim: 4" h x 1.63" w x 0.7" d... **\$49.99**



IR-101 Infra-Scan Infrared Thermometer

Measures object temperature in a fraction of a second without touching it. Useful for contact-free measurement of stationary and moving objects, finding cold spots in a home, checking food, heating and air conditioning, hot components (machinery, engines, etc.) over a wide temperature range from -4°F to +572°F. One key operation and backlit LCD. Includes (4) LR-44 cells. Dim: 2.2" w x 0.9" d x 4" h..... **\$49.99**



Local weather conditions can vary from block to block. Having a weather instrument at home gives you real-time weather data based on what's happening in YOUR back yard from any room in your home.



Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI

Browse Our Store On-Line at www.aesham.com

DAVIS

WEATHER STATIONS

Professional quality for home, business, or scientific use. Add WeatherLink for detailed, long-term analysis using a PC.



6152 Wireless Vantage Pro2 - It's the first weather station in its price range to use frequency hopping Spread Spectrum radio to transmit and receive data up to 1000 ft. line of sight. It still offers the same great features of Vantage Pro such as forecasting, on-screen graphing, and much more. Quick view icons show the forecast at a glance-sunny, partly sunny, cloudy, rain or snow- while a moving ticker-tape display gives more details. The integrated sensor suite combines a rain collector, temperature and humidity sensors, and anemometer into one package-making setup easier than ever and improving performance and reliability. For improved accuracy, temperature and humidity sensors are housed inside a radiation shield which protects against solar radiation and other sources of radiated and reflected heat **\$539.99**

0281 Wind Wizard™

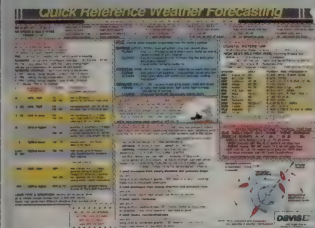
Wind Speed Indicator
Accurately measures speed from 0-60 mph in miles per hour, meters per second, and Beaufort. Readout supported by sapphire jewel bearings and steadied by rare-earth, magnetic, damping system. Latching folding handle. Self-powered - no batteries needed.

Dim: 3.625" x 2.875" x 1" folded; 2.5 oz. **\$49.99**



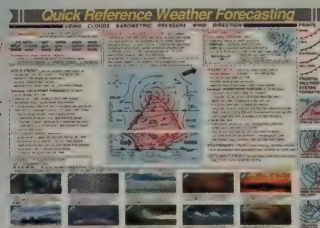
SOFTWARE

7862 WEATHERLINK® - Links a PC and Perception II, Weather Wizard III, or Weather Monitor II. Create graphs, calculate average conditions, generate summaries, analyze trends, etc. **\$149.99**



DAVIS
Weather
Forecasting
Quick
Reference
Card

Side1 Side2



Discusses the use of wind direction, barometric pressure and cloud type in predicting the weather. Includes full list of radio weather stations for official broadcasts, plus key information on storm warnings, hurricane avoidance, navigating in fog and other hazardous conditions, and more. Weatherproof, strong plastic, full color. Punched for binder or bulkhead mounting. Dim: 8.5 x 11 in **DAV 0131 \$9.99**

CLOSE OUT!



7440 Weather Monitor II®
Shows all weather monitoring functions and clock on a back lit 1.875" x 4.375" LCD display. Temperature readings of -50 to 140°F (outside), 32° to 140°F (inside); Wind calculations, including direction in 1° or 10° increments, wind speed up to 175mph, and high wind speed and wind chill to -134°F; Barometer measuring barometric pressure with memory recall and trend arrow; Indoor high and low humidity from 10%-90% (outside optional); Alarms for temperature, wind speed, wind chill, humidity, time and barometric trends. Dim: 5.25" x 5.875" x 3" **Closeout \$269.99**

7859 External Temperature/Humidity Sensor

For 7440. Measure outside humidity, dew point and temperature. Includes 40 ft. cable **C/O \$99.99**

7425 Weather Wizard III®

Offers most monitoring features of the Davis Weather Monitor II, except barometric pressure and inside humidity. Measure daily and accumulated rainfall with optional rain collector. Optional Weather-Link software will process and store data through an IBM®-compatible or Mac®. Metric or U.S. Dim: 5.25" x 5.875" x 3" **\$179.99**

7852 Rain Collector II - For 7440 or 7425. Read both daily and accumulated rainfall in 0.01" increments. Comes with 40 ft. cable **\$69.99**

7400 Perception II® - Ideal for keeping track of climate conditions inside the home. No installation required. Looks similar to 7425; Indoor temperature -32°F to 140°F; Barometric pressure with memory recall; Humidity; Alarms for temperature, humidity, time, and barometric change. **\$139.99**



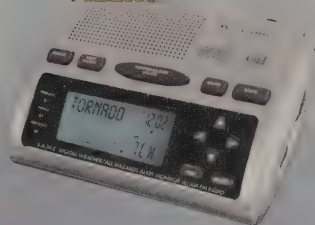
0276 Windscribe Ultrasonic Wind Meter

- Reads current wind speed, headwind, tailwind, 5-second and running average. Select from mph, km/h, fpm, m/s, f/s or knots, plus temperature and wind chill in tenths of °F or °C. Sensitive to breezes as low as 0.4mph, and as high as 150mph. Three configurations include handheld use with adjustable lanyard, tripod mount and mounting bracket with Velcro® strap. Includes 3V lithium battery. Dim: 5" x 3" x 0.75"; 3.5 oz **\$99.99**

MIDLAND

WEATHER RADIOS

ALERT



WR-300 AM/FM Alarm Clock Radio with 7-Channel Weather/All Hazards - For security, be alert to conditions that affect you. This unit offers Specific Area Message Encoding (S.A.M.E.) technology which preprograms the device to receive only those warnings that apply to your local area. You can choose state, county, and/or nearby counties. Offers 30 programmable county codes, AM/FM tuning, date, time, alarm functions, and automatically switches from AM/FM to pertinent all-hazard alerts. Drift-free PLL and easy-to-read blue, backlit LCD. You get a convenient, 10-alert memory, and can add, edit, and remove unwanted alerts at any time. Operates from the supplied AC power adapter or (4) AA Batteries (not included) **\$59.99**



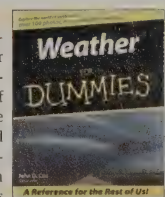
74-250C All-hazard Alert Handheld Weather Radio with S.A.M.E. Technology

Get 24-hour, up-to-the-minute weather and hazardous-conditions information. Receives all seven NOAA weather channels and has SAME (Specific Area Message Encoding) technology. Digital panel displays up to 56 messages. Includes a 12/24 hour dual alarm clock with snooze and nine memory settings. Built-in fahrenheit/celsius thermometer with freeze warning alert. Waterproof for outside use. Requires two "AA" cells (not supplied) and supports in-unit battery charging of two NiCd or NiMH "AA" cells (not supplied). Battery low indicator. Only 4" h x 2.75" w x 1" d **\$49.99**

Weather for Dummies

Are you dazzled by dramatic displays of thunder and lightning - and wonder why these forces of nature occur? This guide offers easy-to-understand explanations about meteorological concepts, from jet streams to tornadoes and El Niño. Inside, you find experiments and activities you can do at home, plus insight on smog, the greenhouse effect, and more!

WIE WXFORDUMMIES \$21.99



Price Guide
Used / Demo
Ham Radios
Ham Radio
Accessories
Antenna
Accessories
Publications
Other
Radios
Weather
& GPS
Audio / Video
& Tools
Information
AES

GARMIN® GPS



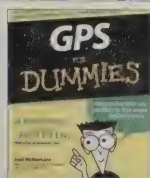
GPS-60 GPS-MAP60 GPS-72

GPS-60 Personal Navigator – A 12 channel GPS receiver with WAAS. Accepts 1 Mb downloaded points of interest from MapSource® CD-ROM. Separate USB and serial port interfaces. Points of Interest data; Stores 500 waypoints and 50 routes; 10,000 points track log to retrace your path; TracBack™ to a selected point function; Celestial tables for best fish and hunt times; Audible beeper alarm; Up to 28 hours on 2 AA alkaline batteries. Dim: 2.4" w x 7.1" h x 1.3" d **\$159.99**

GPS-MAP60 Map Navigator – 12 channel GPS receiver with WAAS. Basemap with automatic turn-by-turn routing capability shows cities, interstates, major roads and more. Download 24Mb of data from optional MapSource® CD for greater map detail. Includes MapSource® Trip and Waypoint manager for transferring waypoint, route and track data between your GPS and PC. Stores 500 waypoints and 50 routes; 10,000 point tracklog to retrace your path; TracBack™ to selected point function; Celestial tables for best fish and hunt times; Audible beeper; Up to 28 hours on 2 AA alkaline batteries; Separate USB and serial port interfaces. Dim: 2.4" w x 7.1" h x 1.3" d **\$219.99**

GPS-72 – A low-cost, but precise land and marine positioning using WAAS data. 500 name and graphic waypoints, 50 reversible routes; Backlit high-contrast, gray-scale display with "large number" option; Latitude/Longitude, UTM, Loran TDs, Maidenhead, MGRS and user grid formats; Arrival, off-course, clock and proximity alarms; 1 MB memory for MapSource data; Trip computer with odometer, stopped time, moving and overall average, total time, maximum speed **\$129.99**

RINO-120 GPS Enabled Handheld for FRS & GMRS
Communicate up to 2 miles using the FRS radio function, or 5 miles, using GMRS. 14 channels, 38 squelch codes; VOX; Voice scrambler; "Silent" call mode. The 12-channel GPS function provides position accuracy of less than 10 ft. and position reporting using FRS Waypoint storage, TracBack, multiple position formats and built-in trip computer. Basemap of the Americas (major cities, highways, thoroughfares, rivers, lakes, coastlines, borders, and railways); 8MB memory for downloadable cartography from MapSource CD-ROMs; Uses 3 AA's **\$229.99**



WIE GPSDUMMIES \$21.99

GPS for Dummies

Here's what you need to make the most of your portable GPS unit and of all its amazing features. Venture into new places with confidence, explore the treasure hunting sport called geocaching, and much more!



eTrex (left) – 12-parallel-channel GPS receiver and internal patch antenna packaged in a waterproof case. Side operating buttons for larger display area. Simple menus and logical operation. Compass or map navigation; Zoom keys; 500 user waypoints; 1 route with 50 waypoints; Resettable trip computer; Auto track log, 10 saved tracks to retrace a path; Up to 22 hours use with (2) AA alkalines. Dim: 4.4" h x 2" w x 1.2" d; 5.3 oz **\$99.99**

eTrex Summit Hiking Companion (right) Similar to the eTrex but includes a barometric altimeter and electronic compass **\$149.99**

GEKO-201 – Small, lightweight and waterproof. Simple but powerful operating system allows more waypoint and route storage, as well as available PC and external power connectivity, and built-in WAAS capability. Has a configurable trip computer and 10,000 trackpoints, as well as PanTrack™ and TracBack®. 500/20 x 125 waypoint/route storage; Automatic 10 track storage; Five buttons (one-hand use); 64 x 100 pixel, high contrast display; Includes four interactive, outdoor games; 12-hour operation on (2) AAA batteries. Dim: 3.9" h x 1.9" w x .96" d; 3.1 oz **\$139.99**

ST PILOT C330

Preloaded with map data for US, Canada and Puerto Rico with all travel information detail you'd ever want. Navigation is easy - just enter an address or pick a destination and the automatic routing and voice prompts take you there. Touch screen operation, with vivid graphics. Vehicle suction cup multi-position mount with integrated power cord, 12-volt adapter and PC/USB cable. Internal battery for trip planning. Dim: 3.2" h x 4.4" w x 2.8" d. **\$299.99**



G4T Car Navigator – Smart driving assistance for business or leisure trips throughout USA and Canada. The 2 GB Secure Digital is preloaded with USA Tele Atlas high coverage cartography which can be viewed in 2D or 3D mode. The G4T is practical and easy to use with built-in Li-Ion rechargeable battery, Sirt Star 3 GPS antenna and IR remote control with full alphanumeric keyboard. Consult the map safely thanks to the large and ultra-bright 5 in. LCD TFT display. Video in/Video out – connect your laptop, camera or DVD player to the audio-video input, and you can view pictures and movies on the screen.

Kenwood & AvMap - the Ultimate APRS® Combination

Built with APRS® in mind, the Avmap G4T with supplied interface cable plugs directly into the Kenwood TM-D700A or TH-D7A(G) TNC radios. This is the ultimate APRS solution out of the box. With built-in moving target display, you can see moving APRS® stations (triangle) and fixed stations (circles). Millions of Points of Interest, address look up and many other features make the G4T a perfect personal navigator. Includes mounting options for the dash or windshield, audio/video in cable, IR remote control, power cable, quick start guide, and operators manual. Dim: 5.4" h x 3.9" h x 1.3" d; 13.76 oz **\$749.99**



GPS-18 Package – Turns a laptop into a street navigator using WAAS-enabled GPS sensor. bundled with nRoute™ and City Select® North America with detailed maps of the U.S. and select cities in Canada. Automatically guides with turn-by-turn directions and voice prompt.

GPS-18PC DLX – Serial connection sensor, 12V cigarette adapter, magnetic base, windshield mount and software. 2.4" dial. x 0.75" h; 6.5 oz **\$129.99**

GPS-18USB DLX – USB connection sensor, magnetic base, windshield mount and software. Uses PC's power. 2.4" dial. x 0.75" h; 3.5 oz **\$129.99**



FORETREX 101

FORETRUNNR 201

FORETREX 101 Personal GPS Navigator Rugged, lightweight, waterproof and wristband mounted for the sportsman. Provides accurate position data, extensive waypoint storage, reversible routes, track info, and TracBack technology. PC waypoint, route and track management. Uses (2) AAAs, 15 hours of operation. Dim: 3.3" w x 1.7" h x 0.6" d; 2.6 oz **\$129.99**

FORETRUNNR 201 GPS/Personal Training Device – For athletes, runners and walkers. Calculate speed, distance and pace. Mark locations, look up and navigate to points, retrace or reverse normal route. Downloadable performance-tracking software to analyze activity over time. Transfer data to a PC, for review. Includes wristband, A/C charger with PC interface, manual and quick start guide. Dim: 3.3" w x 1.7" h x 0.6" d; 2.75 oz **\$149.99**

TV ANTENNAS

PROSTAR® 1000 VHF/UHF/FM Antennas
Features die-cut impedance correlator that allows close spacing of antenna elements. Manufactured from high tensile aluminum for a strong, compact antenna that will better withstand strong winds and ice loading. Protected with polymer finish.

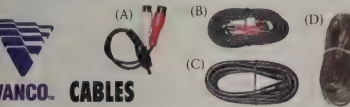
- PR-7010 Metropolitan** – 22 active elements (9 VHF, 13 UHF); 66.5" boom **\$59.99**
PR-7032 Far Suburban – 33 active elements (13 VHF, 20 UHF); 103.25" boom **\$89.99**
PR-7042 Fringe – 43 active elements (17 VHF, 26 UHF); 149.75" boom **\$149.99**

TV CABLE



RG-6 75 ohm TV Coaxial Cable – Cellular poly dielectric, #20 copperweld center conductor, 100% aluminum foil shield and 40% aluminum braid shield provides low-loss, good conductivity, flexibility and high tensile strength. Weather-proof F-connectors are installed on each end.

- CX-0625** – 25 ft. length **\$10.99**
CX-0650 – 50 ft. length **15.99**
CX-0675 – 75 ft. length **19.99**
CX-6100 – 100 ft. length **24.99**
TV-2900 Matching Transformer – Adapts 75 ohm coaxial cable with F-connector to a 300 ohm TV antenna or TV set. Includes F-connector and weatherproof boot **\$2.99**



- AC-3F Audio "Y" Adapter (A)** – (1) RCA Plug to (2) RCA Jacks, Shielded, Red/White, 6 in. **\$1.49**
AC-272E Stereo Extension Cord (B) – Shielded 6 ft. audio extension cord with color coded RCA plugs and jacks **\$2.99**
FF-3 Video Cable (C) – 3 ft. high quality TV/VCR cable made of low loss 75 ohm RG-59 cable with molded "F" connectors **\$1.99**
FF-6 Video Cable (C) – 6 ft. high quality TV/VCR cable made of low loss 75 ohm RG-59 cable with molded "F" connectors **\$2.99**
SPW-52 Speaker Wire (D) – 25 ft. 18 gauge, clear flexible jacket with polarity stripe **\$7.99**

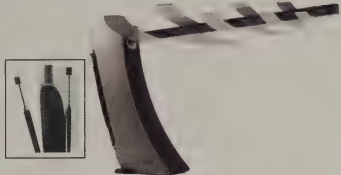


AVW-089 3-Channel Audio/Video Switcher
Accepts audio (left/right) and video input from 3 sources switchable to a single output **\$8.99**

TV ANTENNAS



TV-55 Amplified Out/Indoor TV Antenna – Uses a helical, coiled broadband single element engineered for clear, powerful reception of HDTV broadcasts. Receives both UHF and VHF frequencies from 54-806 MHz. Built-in ultra-low noise 10dB amplifier (switch in or out for best reception). Mounts in or outdoors. Includes a AC adapter and mounting hardware. Dim: 46" w x 3.5" h x 2.25" d **\$99.99**

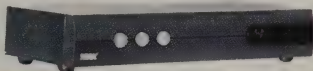


HDTV-1 Indoor UHF/VHF/HDTV Antenna
Utilizes long periodic-tuned elements and dipoles for receiving both UHF and VHF HDTV broadcasts. Tuned for optimum reception – high front-to-back ratio eliminates reflected signals and high gain picks up distant signals. Dim: 13.5" w x 9.1" h x 16.5" d; 42" high with dipoles extended **\$39.99**

AUDIO/VIDEO SWITCHES



MOD-41 RF Modulator – Connect up to four A/V sources to any TV with no available A/V input jacks. Similar to VS4-MOD+ below, without S-Video jacks or IR remote. Dim: 6.5" w x 2" h x 4.25" d **\$39.99**



VS4-MOD+ RF Modulator – Allows connections of multiple A/V components to a TV with no available A/V (RCA) input jacks. Provides inputs for up to four A/V sources (video games, DVDs, VCRs, VCRs, satellite receivers and camcorders). Converts A/V sources to VHF for viewing on channel 3 or 4 on any TV. Compatible with your infrared remote control to remotely switch between A/V sources. Has "F-type" antenna and cable inputs, and RCA and S-Video input and output jacks. AC wall adapter included. Dim: 9.75" w x 2" h x 5" d **C/O \$49.99**

TV VOLUME REGULATOR



VR-1 TV Volume Regulator – Regulates and delivers a steady audio volume level during those loud commercial breaks, through abnormally loud or quiet scenes during a movie, while channel surfing, or when switching A/V devices. Once installed, an advanced DSP system does its job automatically, without adjustment. Noise reduction reduces hiss, bass and treble are processed separately for improved dialog. Includes AC adapter and 6 ft. audio cable. Dim: 3.18" w x 3.87" h x 1.43" d **\$39.99**

TERK

AM/FM ANTENNAS



TOWER AM-FM Tower Antenna (left) – Built-in amplifier with gain control improves AM and FM reception. Works with tuners and receivers with 75Ω or 300Ω FM antenna inputs. The AM connection consists of a pair of wires with U-clips. Useful 30-40 miles from broadcast transmitter **\$24.99**

ADVANTAGE External AM Antenna (middle)
Passive, adjustable 530-1600 kHz AM antenna that improves reception over built-in loops. Used unattached, next to the radio. Position for best reception, then rotate tuning dial located at the center of the antenna to match the AM frequency tuned in on the radio. For best performance, connect directly to an external AM antenna input **\$49.99**

PI-B Powered Indoor AM/FM Antenna (right)
Improves FM (88-108 MHz) reception by eliminating multipath interference and providing amplification from the built-in low-noise preamplifier. An adjustable position AM loop enhances broadcast band reception. Impedance: (FM) 75/300Ω, (AM) 300Ω. FM Gain control. AC adapter included. Dim: 6" h x 6" w x 1.5" d **\$49.99**

LEAPFROGS



LF-30S Leapfrog WaveMaster 30 Transmitter/Receiver System – An easy-to-use, cost effective alternative to purchasing multiple A/V components. Allows remote control use of A/V signals from one source, such as a TV with satellite or DVD player, to another within your home. Transmits on 2.4 GHz band and penetrates walls, doors, ceilings and floors. Built-in IR extender enables use of existing or universal remote to control the system. Built-in modulator ensures connection to old and new TV's. Dim: 15" h x 7" w x 4.8" d **\$99.99**

LF-1RX Leap Frog Remote Control Range Extender – Increases range capability of infrared remote controls. Provides the power to operate A/V components through walls and floors up to 100 ft. Operates on 418 MHz for wireless install. Simply plug base in near controllable unit, then plug the receiver in remote location. Cables and AC adapters included. Dim: 5" h x 2.5" w x 4" d **\$39.99**



We accept I.M.P.A.C.® Government Credit Cards

Television & AM/FM Antennas
Audio / Video Accessories



VTS 25 Piece Multi-Purpose Toolset – A quality toolset for the electronic engineer and hobbyist. Includes: 4.75" universal handle, 3" extension, 9 different bits, hex adapter, (4) 1/4" drive sockets, tweezers and plastic case. Dim: 6 x 4 x 2 in. **\$9.99**
 Bits: (Slotted) 1/8, 3/16, 1/4"; (Phillips) #1, #2, #3; (Star) T-15, T-20, T-25. Sockets: 4, 5, 6 and 8mm 1/4" drive. Precision screwdrivers: 4 slotted, 2 Phillips. Pliers: 4.5" mini diagonal, 5" mini long nose



VT-SET21N 8-in-1 Screwdriver Set – Includes 4 Phillips and 4 slotted screwdrivers. Each screwdriver fits into the handle for greater torque. **\$4.99**



VT-SET3N 6-Piece Electronics Screwdriver Set Includes: T6, T7, T8, T10, T15 x 50mm sizes. Each 4.2 in. screwdriver has its own handle. **\$9.99**

VT-SET Stainless-steel precision Pliers set. 5 Pieces: Diagonal cutter, top cutter, bent nose pliers, flat nose pliers, long nose pliers. **\$9.99**



VT-BT6 33 Piece Screwdriver Bit Set – Includes Hex: #2, 2.5, 3, 4, 5, 6; Star: #T10, T15, T20, T25, T30, T40; Flat: 3, 4, 5, 6, 7; Phillips: 1 PH0, 2 PH1, 2 PH2, 2 PH3; Pozzi: 2 PZ1, 3 PZ2, 2 PZ3; Magnetic bit holder: 14" hex. **\$6.99**

VT-M468L Crimp Tool – For RJ10, RJ11, RJ45 (4P4C, 6P4C, 8P8C) modular connectors. **\$9.99**



AVM-2050 ANALOG SOUND LEVEL METER

- Omni-directional electret mic.
- Ranges: 60, 70, 80, 90, 100, 110, 120dB (up to 126dB)
- A and C weighting
- Battery level indicator
- Battery included
- RCA output jack
- Dim: 6.3" h x 2.4" w x 1.7" d; 0.4 lbs

\$29.99



TLM-2 Test Leads – Two leads with banana plugs. Length: 30/37 in. Rated: 1000V/15A. **\$2.99**

TLM-10 Test Probe Set – (4) crocodile clips, (4) 0.16 in., pins (2) 0.08 in. pins, (2) forks. **\$4.99**

K/TF 75-piece cable-tie pack – Contains 25 each of 3.9 in., 4.7 in. and 7.9 in. long ties. **\$2.99**

VT-LAMP2U Magnifier Lamp – A 22W, circular fluorescent lamp with 1.75x magnifying glass, 41 in. arm length and table edge mount. **\$49.99**

DVM-810

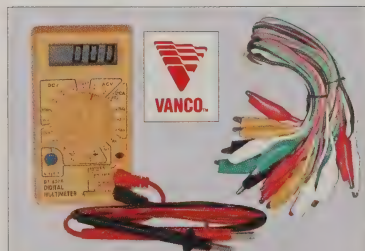
Digital Multimeter

Compact design makes this meter a perfect fit for any toolbox or even shirt pocket! It features multiple functions and an easy-to-read LCD display. Measures voltage, current, resistance, transistor and diode, 3.5 digits, 19 ranges. Battery included. **\$9.99**

DVM-850BL

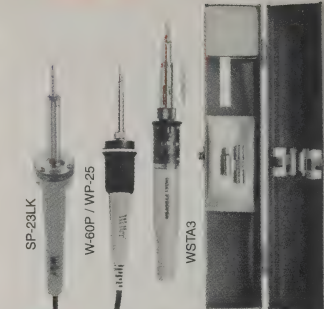
Digital Multimeter

Auto polarity function manual ranging mode, data-hold function and 10 Amp overload protection. Measures DC current up to 10A, AC/DC voltage up to 600V, resistance up to 2MΩ. Diode, transistor and continuity test with buzzer. Backlit 3.5-digit LCD. Uses 9V battery (included). Protection holster and test leads. Dim: 2.6" w x 5.4" h x 1.18" d. **\$19.99**



370052 Digital Multi-Meter – Features a 3.5 digit, 1/2" LCD, with polarity indicator. Measures: DC voltage in 5 ranges, 200mV–600V; AC volts: 200V and 600V; DC current in 5 ranges, 200uA–10A; Resistance in 5 ranges, 200–20k; Diode test shows forward voltage drop; Transistor test shows hFE value. Comes with 100-hour, 9V battery and plug-in test leads. Dim: 2.76" w x 4.96" h x 0.94" d; 6 oz. **\$19.99**

CL-3 Test Lead Set – Heavy duty, 10-pieces, protected alligator clips on each end. Five different colored pairs, 22 in. long. **\$8.99**



SP-23LK 25W Soldering Iron Kit – Ideal for hobbies, kits, radios and delicate electronic work. "On" Indicator light. Supplied with three 750° tips, handy soldering tool and solder. Dim: 8-1/4 in. long, 1-3/4 oz., two-wire 6 ft. cord, 120V. **\$18.99**

W-60P 60W Pencil-Type Soldering Iron – For most circuit work. 0.0625 in., 700°F screwdriver tip. Dim: 7 1/2 in. long, 2.5 oz., 6 ft. cord, 120V. **\$68.99**

CT-5E7 1/4 in. Screwdriver Tip. **\$5.99**

WP-25 25W Pencil-Type Soldering Iron – For work on delicate electronics. 750°F tip temperature. Dim: 7.875 in. long, 1.75 oz., 4 ft. cord, 120V. **\$35.99**

ST-4 3/16 in. Screwdriver Tip. **\$4.99**

ST-5 3/32 in. Screwdriver Tip. **\$4.99**

WSTA3 Pyrophen® Butane Soldering Iron with Case – Light-weight and completely portable. Operates up to 3-hours on a single charge of regular cigarette lighter butane (not included). Very fast heat-up time, ready to solder in just 30-seconds. Controlled soldering temperature is adjustable from 392° to 932°F. Supplied with tips for soldering, hot air (1202°F), and brazing. **\$99.99**

7200PK Multi-purpose Soldering Gun

Compact, lightweight, but 75 Watts for bigger work, connectors and almost any other heavier job. The flat, self-supporting back acts as a convenient rest. Includes a carrying case, extra tip and solder. 120VAC. **\$30.99**

7235 (2) Extra standard tips. **\$3.99**



WESD51

50W Adjustable Soldering Station

For continuous production soldering as well as occasional use. Quick heat-up, and tip temperature recovery.

Microprocessor temperature control and LED display that shows the adjustable heat setting and tip temperature from 350 to 850°F. Automatic shut down after 90 minutes. Includes power unit, soldering iron with 3-wire 4 ft. cord, stand and tip cleaning sponge. Dim: 5.9" w x 4.5" h x 3.6" d; 4 lbs. **\$149.99**

WTCPT

60W Temperature Controlled Soldering Station

For production, rework, and repair of through-hole and SMT boards. ESD safe, tip temperature maintains a constant 700°F without any adjustments. Includes: Control unit, pencil-type soldering iron with 3-wire 4 ft. cord and stand with cleaning sponge. Dim: 4.5" w x 5.94" h x 3.63" d; 4 lbs. **\$119.99**

Weller



CHT-100 Weller®Coldheat™ Pro Soldering Tool
Heats to melts solder instantly and then cools to the touch in just seconds. Produces over 700 joints per set of (5) AA alkaline batteries (not included). High/low power settings with capabilities to tin wire as large as 12 gauge or join wire from 18 to 25 gauge. Built-in bright white LED light to illuminate your work area, and red "in use" light. Rugged polycarbonate body and HD components. Includes, 61° angle chisel tip, protective cap and storage case. Dim: 9.25"l x 2"h x 1"d..... **\$31.99**

KOSS



QZ/5 Passive Noise Reduction - Isolates listener from noise sources like car and jet engines. Ideal for the race track and metal detection. Unique head-strap velcro design allows for secure fit and immobilization. 60Ω impedance; 102dB SPL/1mW sensitivity; 40 to 20,000 Hz sensitivity; Volume control and Stereo/Mono switch; Single entry, 8 ft. coiled cord with 3.5mm plug; 15 oz..... **\$49.99**

QZ/50 Revolutionary Active Noise Reduction Reduces harmful & annoying low frequency sounds in noisy environments. Behind-the-head design provides comfort for extended wearing. Dynamic element, 30-20,000 Hz; 32Ω impedance; 98dB sensitivity; Single entry 8 ft. cord, with 3.5mm plug; Uses one AAA battery (not included); 2.5 oz..... **\$49.99**

QZ/99 Passive Noise Reduction Stereophone with Mono/Stereo Switch - Frequency response: 40 to 20,000 Hz; Coiled, single entry, 8 ft. cord with 3.5mm and 6.4mm plugs; Sensitivity: 102dB SPL/1mW; Impedance: 60Ω; 15 oz..... **\$59.99**



QZ/2000 Noise Reduction Stereophone
The revolutionary Active Noise Reduction system reduces harmful or annoying low frequencies >15dB SPL from 40-200 Hz, average 10dB SPL from 30 to 1000 Hz. 15-20,000 Hz response with 101 dB SPL/1mW sensitivity; 5kΩ impedance; Straight, dual entry, 4 ft. cord; Control case and collapsible stereophone; Adjustable headband; Input jack for audio play-through and 2-prong adapter for in-flight use; Includes 2 AA's; 2.3 oz.... **C/O \$119.99**

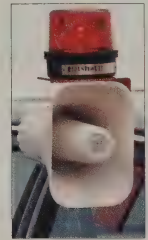


KTX/8 Portable Stereophone - Dynamic element for extended frequency response from 40 to 20,000 Hz. Foam ear cushions for open, hear-through sound. Volume control on the cord for easy level adjustment. Collapsible headband design for protective storage and maximum portability. Reliable "L" plug for improved durability and reliability. Straight, single entry 4 ft. cord. **\$14.99**
Y-88 "Y" Cord - Delivers dual stereophone connection from a single sound source. "L" plug for improved reliability and durability..... **\$4.99**

GROTHE ELECTRONICS



SIRENS & HORNS
VS-2 Emergency Vehicle Siren - For the volunteer fireman. A quality-built wail-yelp alarm that delivers a 120dBa sound level at 4 ft. with a frequency range of 600 to 1200Hz. Pre-wired with a 3-position switch (Yelp-Off-Wail). Includes a waterproof horn speaker, 10 ft. cable, mounting bracket and hardware. 12VDC @ 1.5A; 2.7 lbs **\$89.99**
VS-3 Vehicle P/A and Airhorn with Rebroadcast Powerful airhorn sound with 4 different sounds (no siren) Delivers 120dBa level at 4 ft. Locking down the microphone with the supplied rubber band, you can monitor sound from a mobile rig via the speaker outside. Includes horn speaker, microphone, electronic center, 10 ft. cable, mounting bracket and hardware. 12 VDC @ 1.5A..... **\$129.99**
VS-4 P/A Emergency Vehicle Siren - Contains P/A, rebroadcast, wail, yelp, pulse and airhorn. P/A over-ride features, plus volume control of all siren modes. Restricts output when operating in people places. Includes horn speaker, microphone, electronic center (3 x 3.5 x 2 in.), 10 ft. cable, mounting bracket and hardware. 12VDC @ 1.5A..... **\$139.99**



VS-2LS Siren-Light Combo
A one-unit siren and yelp alarm, revolving halogen light and window mount. Fits all cars, slides on top of car window and plugs into cigarette lighter. The power plug contains an "on" LED and three position switch to select Yelp, Off or Wail modes. 12 VDC @ 5A. Specify AMBER, BLUE or RED light. **Special Order... each \$299.99**



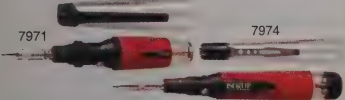
HF-24RS
Scanner Headphones
Designed specifically for racing fans. Listen to driver to pit conversations on a scanner with reduced noise. Snug fit, cushioned headband and comfort fit cushions allow hearing action over crowd and engine noise. Dual volume control to maximize hearing levels; Includes 3.5mm plug with a 10 ft. coiled cord.... **\$19.99**



Scancat-Gold for Windows
Supports the BEARCAT BC-296, BC-796, BC-250, BC-785, BC-780, BC-245 and BC-895 TrunkTrackers and more than 85 radios from over 10 manufacturers. Proves computer control of conventional operations such as scanning, logging, spectrum analysis etc., plus full trunking. Scancat permits you to selectively load the banks of the radio with all your favorite trunking frequencies and trunking group ID numbers. You can also read the radio's memory contents to files, including conventional trunking information.. **SCA GOLDFORWIN C/O \$69.99**

WAHL ELECTRONICS ISOATIP

7740 Cordless Soldering Iron Kit - Provides tip performance up to 50W and over 700°F. Contains premium NiCad Rechargeable Battery with high-rate charging. Partially discharged it will return to full capacity within 1 to 2 hours, with a complete recharge in 3 to 4.5 hours. Replaceable battery and work light. Comes with recharging stand, fine and heavy soldering tips **\$52.99**



7971 SolderPro 50 BUTANE Soldering Iron Ready to use within 10 seconds. Adjustable 410°F to 750°F and operates up to 30 minutes on a charge of standard cigarette lighter butane (not included). Includes 1.0 mm conical tip. Dim: 4-3/4 in. long..... **\$25.99**

7974 SolderPro 70 BUTANE Soldering Iron Ready to use within 10 seconds. Adjustable 410°F to 850°F and operates up to 120 minutes on a charge of standard cigarette lighter butane (not included). Includes 1.0 mm conical tip and a torch tip. Dim: 7-1/2 in. long... **\$39.99**

Desoldering Pump



The easy way to remove solder from printed circuit boards terminals and wires. Non-stick Teflon® nozzle. Dim: 13.2 in. long.
VEL VT-D2 \$3.99

Rosin Core Solder



Perfect for all ham radio and other electrical applications. The 60% tin, 40% lead composition, .040" diameter and 374°F melting temperature allows quick and secure, non-corrosive connections. Approximately 8 ft. (1/2 oz) in handy dispensing tube.. **KES 82-5000-0004 \$2.99**

• 1-800-321-3594 OH • 1-800-327-1917 FL • 1-800-634-6227 NV

Email Your Questions to info@qesham.com



Soldering Tools & Accessories
Headphones • Sirens & Horns

131

Price Guide
Used / Demo
Ham Radios
Ham Radio Accessories
Antennas
Antenna Accessories
Publications
Other Radios
Weather & GPS
Audio / Video & Tools
AES Information

MFJ

105C 24 Hour Quartz Wall Clock - Black, 10 in. diameter face, sweep second hand. Uses one "AA" battery..... **\$24.99**



112B DX'er's World Map Clock - Shows time at any QTH throughout the world on an attractive backlit LCD world map. Also shows day, month, date and year. Select 12 or 24 hour time, daylight saving time. Dim: 4.25" w x 3.3" h x 2.25" d..... **\$29.99**

125 DX'er's Dream Quartz Wall Clock The 12 in. diameter face shows 24-hour time. Three independently settable table dials show 12 hour time, day and date. Uses a single "AA" battery **\$34.99**



Small 24-Hour Clocks - A Dual Clock with separate UTC and local time display modules, and a Single Clock with 24-hour time only. Heavy brushed aluminum frame, 5/8" high LCD numerals, sloped face. Flashing seconds colon, battery included.

107B (left) Single - 2.25" w x 1" h x 2" d..... **\$12.99**

108B (right) Dual - 4.25" w x 1" h x 2" d..... **\$21.99**



113 12/24 Hour Desk Clock - Switchable 12/24 hour display; 9-minute ID timer; Alarm function; 9V battery back-up for power failures; 110 VAC, 60Hz. Dim: 9" w x 4" h x 2.5" d..... **\$19.99**

118 Jumbo LCD™ 24/12-hour Clock 1.25 in. high with high contrast LCD. Shows year, month, date and day in four different languages. Includes 100 year calendar and flip stand. Uses one "AAA" battery. Dim: 5.75" h x 3.375" w x 0.5" d..... **\$29.99**



123 Eternity Atomic Clock™ - Solar powered and automatic time set by radio signals received from WWVB. Large (6.75" w x 2" h) LCD display. Selectable 12/24 hour time format, digital calendar. Ordinary room light powers the solar cells and also replenishes a built-in rechargeable battery; also uses (2) "AAA" batteries (not included) for back-up power. Dim: 9" w x 3.5" h..... **\$79.99**

Benjamin Michael Industries
INC.



973A - Battery operated 24-hour quartz controlled clock with sweep-second hand. The 12 in. diameter dial allows excellent visibility. Black textured case and glass crystal. Operates on one "AA" battery Dim: 14" diameter x 1.75" d..... **\$49.99**

972AD - Same but 12/24 hour dial..... **\$27.99**

Gift Certificates

available from all
AES locations...
even online at www.aesham.com!

PDK Technologies



LITE FLARE® Emergency Signaling Device Eliminates the fire and environmental hazards of using incendiary flares. No fumes, burns or risk of igniting spilled fuel or roadside foliage. Approaching drivers can see LiteFlare's flashing super-bright red LED lights from more than a mile away. Operates over 400 hours on just two included/replaceable AA batteries. Durable, the LiteFlare® stands up to repeated drive overs and the molded plastic case resists snow, water, and fuel spills. This palm-sized product comes as a Multi-pack of three units in a plastic case that fits handily into motorcycle storage compartments, safety boxes, or trunks. Dim: 4.25" l x 3.8" w x 1" d; 6 oz (3 pack) **\$29.99**



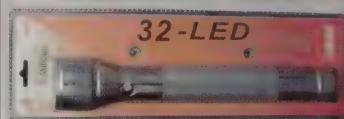
Modern flashlights using LED technology. Lights an area like no other flashlight! 25-day batteries (with diminishing brightness); 11-year (typical), solid-state LED's; Bright, diffused white light; Waterproof to 2'; Shock-proof, high impact composite case with lanyard and hook; 3 year warranty, including LEDs.

LW-2000 - 3 AA alkaline batteries (included) power 4 LEDs. LW-2000 LW-4000 Dim: 7.75" long, 1.25" diameter..... **C/O \$24.99**

LW-4000 - 3 D alkalines (not included) power 10 LEDs. Dim: 10.75" long, 2" dia. **C/O \$49.99**



HOUSE of DEALS LED Flashlights



FL-3232T 32-LED Flashlight..... **\$24.99**

- Sturdy, metal body
- Dim: 12 x 2-1/4 in.
- Powered by (3) "D" batteries (not included)

FL-8211B 11-LED head/bicycle Lamp..... **\$9.99**

- 11 White & 2 Red blinking LED's
- Wide beam
- Adjustable head strap & bicycle attachment
- Dim: 2-3/4" w x 2" h x 4" d
- Powered by (3) "AAA" batteries (included)

HS-2005A 9-LED Pocket Flashlight.... **\$6.99**

- Sturdy, 3-5/8 x 1 in. camo metal body
- Powered by (3) "AAA" batteries (not included)

Forever Flashlight

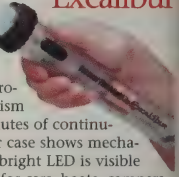
The last flashlight you'll ever need to buy! It never needs batteries or bulbs! Just a 30-SECOND SHAKE activates the electro-magnet charging mechanism giving you up to five minutes of continuous bright light. The clear case shows mechanism in operation. Super bright LED is visible for up to one mile. Great for cars, boats, campers and emergency kits. Waterproof, and it floats.

Dim: 10.5" long x 1.5" dia; 12 oz... **H-422 \$29.99**

Micro Forever Flashlight - Same features and operations as the H-422, but smaller.

Dim: 7.375" long x 1" dia.; 5.6 oz... **H-423 \$24.99**

Excalibur



LW-3000 - Like the LW-4000 (left), but smaller. Three C alkalines (not included) power 7 LEDs. Dim: 8.75" long, 1.625" diameter **C/O \$39.99**

LW-HT Illuminator™ Head Torch - 1"-wide adjustable straps secure light to the head. Up/down adjustable. 4 high-intensity LEDs powered by 3 AA batteries (not included) provide super-bright light visible for over one mile, and over 330 hours. **C/O \$29.99**

LW-PB PocketBright™ Flashlight - Includes key ring, neck lanyard and velcro patches. Single, high-intensity LED, powered by 2 included Lithium batteries, provides over 50 hours of light that can be seen across a full-sized room **C/O \$14.99**



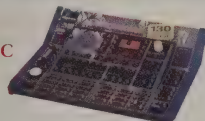
Educational • The fun way to learn about electronics and the wonders of science • Safe and Solderless using spring coil connections and powered by AA batteries • Illustrated manuals for easy project construction • No experience required!

**30 in 1
ELECTRONIC
LAB KIT**



Kit contains everything you need to build a Radio, a Burglar alarm, Water detector, Morse code practice circuit, Simple computer circuits and much more **VEL EL-301 \$39.99**

**130 in 1
ELECTRONIC
LAB KIT**



Built a Radio; AM broadcasting station; Electronic organ; Kitchen timer; Logic circuits and much more. Comes with built-in speaker, 7-segment LED display, two integrated circuits and rotary controls **VEL EL-1301 \$89.99**

**300 in 1
ELECTRONIC
LAB KIT**



300 exciting electronic projects: Radio; IC organ; Burglar alarm; Battery checker; Delayed Timer; Electronic Game; Voltage controlled amplifier; Multiplier; Multiple counter; Light dimmer; Tone burst generator; Audio signal trace; Electronic candle; Voice level meter; Metal detector; Rain detector; Voltage drop alarm; Logic checker; Function generator and many more **VEL EL-3001 \$129.99**

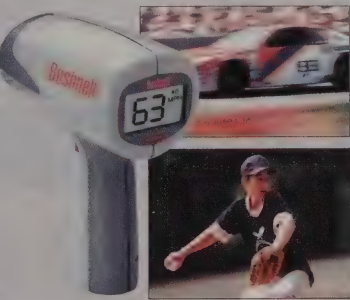
The Sticky Pad holds objects in place on your vehicle dash. No adhesives or magnets. The back of the pad allows it to stay anywhere you place it while also being movable. Durable, reusable.

STI 13810 - Dim: 7.25 in. x 4.13 in **\$5.99**
STI 13820 - Dim: 8.75 in. x 6.875 in **\$9.99**

BUSHNELL

Bushnell makes it easy to accurately measure speed with the Velocity™ speed gun. Very easy to use with its point-and-shoot operation. The Velocity™ speed gun boasts ±1.0mph accuracy. The Velocity™ can track the speed of a ball from 100 feet. It's the ideal tool for tracking everything from race cars to pitching speeds. Velocity™ gun has a 6-110mph range for baseball, softball and tennis. It also has a 6-200mph range for auto racing.

10-1911 Velocity™ Speed Gun - Easy-to-use, point and shoot pistol grip; Large, clear LCD display; Displays fastest speed once trigger is released; ±1 mph accuracy; Operates on two "C" batteries.
Dim: 4.3" x 8.4" x 6"; 13 oz **\$99.99**



**BOUNTY HUNTER™
METAL DETECTORS**

METAL DETECTORS

LAND STAR



Boasts more features than other costly detectors. Includes a Bounty D-Tech™ open-face search coil, advanced microprocessor electronics, 3-tone discrimination and Ground Trac® retune. A multi-function LCD and touchpad control make it equally at home relic hunting, coin shooting, or gold prospecting. Set the notch to reject items, or let "Auto Notch" detect coins 12 in. deep.. **\$349.99**

FAST TRACKER



Newcomers to treasure hunting should not be shortchanged when it comes to features - or quality. That's why there's the Fast Tracker™. It offers 7 in. Bounty D-Tech™ search coil (adjustable angle), dual-tone audio discrimination, motion all-metals mode, auto ground balance, low-battery alert, built-in speaker, headphone jack, and lightweight S-rod comfort-grip handle with stand **\$99.99**

SHARP SHOOT II



Treasures missed by generations won't escape the Sharp Shooter II™. Digital LCD, touchpad control, and interchangeable Bounty D-Tech™ search coil. Also features 3-tone audio discrimination, selectable auto/manual notch level, auto ground balance, battery indicator, S-rod comfort-grip handle with stand, headphone jack, and built-in speaker **\$299.99**

TRACKER IV



The optimum combination of power, ease-of-use, affordability, and big finds every time. The Tracker IV™ is built with a fully-submersible 8 in. Bounty D-Tech™ search coil, sensitivity meter, built-in speaker, headphone jack and battery indicator. Tracker IV features three different user-adjustable operating modes: Motion All-Metals Mode, Full Discrimination, and Tone Discrimination. **\$129.99**



LAND RANGER

Offers many high-end features for the serious detectorist. Designed for every metal detecting application at a pro level. Touchpads keep all modes at quick and easy access while the LCD emits a constant reference source maximizing every possibility for finding treasure. It features an 8 in. waterproof, interchangeable search coil and SmartTrac® ground control **\$449.99**



QUICK DRAW II

The Bounty Hunter Quick Draw II™ metal detector packs many powerful features, like an advanced Zilog Z-86 circuit, for superior discrimination and control. Also includes waterproof Bounty D-Tech™ search coil, three levels of iron discrimination, both target ID and depth readout, sensitivity control, full discrimination, auto and variable notch, and low battery indicator. Detects up to 10 in. deep and larger objects up to 5 ft **\$229.99**



TIME RANGER

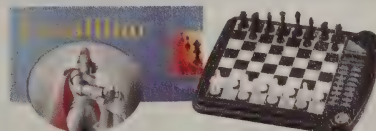
Recover more relics and valuables from the past then ever before. The Time Ranger's powerful circuitry and smooth operation combine to deliver absolute performance. The innovative Sniff-Mode can be used in specialized applications when rejection or acceptance of a particular object is desired **\$549.99**



BOUNTY HUNTER ACCESSORIES

CARRY BAG Padded Carrying Case - Protects metal detectors from the elements, in storage and transit. Rugged, double-stitched, nylon construction. Includes outside zip-pocket **\$29.99**
10" COIL 10-inch Magnum Coil - Adds extra depth for relic and cache hunting **\$49.99**

**Order Now Toll Free
from any AES Location**



908 Talking Electronic Chess Computer

Go up against this chess pro for a challenging game! Magnetic board and chess pieces - pieces store conveniently in compartment under board. Expert strength - estimated 2000 rating; Speaks to player in English, French and German. Includes special teaching and coaching features. 136 selectable levels from beginner to expert. Easy-to-read LCD shows how much time each player has on dual clocks, every move for both player and computer, move counter, automatic scoring, and info mode (what computer is "thinking"). Auto shut-off with memory save; selectable opening lines for play and learning, and lots more; operates on 3 AA batteries. Dim: 12" w x 1" h x 9.98" d; 1.75 lbs **\$59.99**

ORDERS
Minimum COD order is \$50.00 in merchandise, shipment via UPS Ground only (no air or parcel post). The flat-rate, plus a \$9.00 COD fee per package applies. Payment by money order or certified check only, not cash.

DAMAGED ITEMS

If you discover a damaged shipment, **THE CARRIER SHOULD BE NOTIFIED IMMEDIATELY.** The merchandise should not be returned to us until notified to do so by the carrier. All packaging materials must be retained including styrofoam peanuts, inner and outer cartons, labeling, etc. for inspection by the carrier or the claim may be denied. With shipments properly packaged (as all our shipments are), the ultimate responsibility for delivery in good condition rests with the carrier.

DEFECTIVE ITEMS

Defective items should be returned to AES or the manufacturer for warranty repair or replacement, at the manufacturer's discretion. After processing, we will return it via ground method, at our expense in the 48 contiguous states. If you receive defective equipment, call our Customer Service Department at 414-358-4087 for instructions. It is the customer's responsibility to return the defective merchandise to AES or the factory. The manufacturer's warranty does not include reimbursement for freight charges. Canadians please see "Canadians Note:" under TRADE-INS.

INTERNET ORDERS

The customer may order products directly on our web site via our internet order form. If the customer does not have access to the web please call in or mail your order to any AES location. See page 134 for order blank.

PAYMENT

Accepted forms of payment are electronic bank transfer (add \$30.00 Wire Transfer Fee), certified check, personal check, money order, credit card (VISA, MasterCard, Discover, American Express, IMPAC), or COD. The customer's choices of payment methods may depend on amount of purchase or destination of shipment.

PRICING

We will pass on decreases in pricing to our customers whenever possible. Due to foreign currency fluctuations, promotions, manufacturers' specials, etc.; prices may vary, so be sure to confirm prices when ordering. All prices and specifications are subject to change without notice. AES is not responsible for typographical errors or omissions.

REFUNDS

Amounts under \$5.00 are not refunded unless requested in writing to the Milwaukee headquarters within 12 months.

RETURNS

In order to maintain the lowest possible prices, we do not offer a *free trial* or *evaluation period* on new equipment. If permitted, an **authorized** return of merchandise for credit (it must be like new with all original packaging) will be subject to a **Minimum 15% Restocking Fee.** The item must be returned within **10 days** after receipt, prepaid, with a copy of the purchase invoice and a letter describing the reason for the return. No returns on antennas, towers, cable, items drop-shipped from the manufacturer, audio or video tapes, kits, books, or computer software. Canadians please see "Canadians Note:" under TRADE-INS.

REFUSED ORDERS

If a package is refused by the customer the actual outbound freight and actual inbound freight charges by the carrier will be deducted from the return. Packages returned by the customer unopened will only be subject to actual outbound freight. AES also reserves the right to charge a minimum 15% restocking fee to the return.

PACKING FOR SERVICE AND/OR RETURN

When returning heavy, delicate, and expensive equipment, it must be carefully packed in order to avoid damage caused by normal transportation dynamics. When contents of packages are damaged, claims will be paid only if the carton and packing meet standards set in the International Safe Transit Association Procedure 1 and 1-A. These standards simply state that cartons and packing should provide reasonable protection to their contents. Ideally, contents should be suspended in the center of the carton by the packing material, no less than three inches on all sides for heavy items. For items heavier than 20 lbs., 3 in. of foam or crumpled paper should be used instead of polystyrene edge protectors. **Send your package insured.**

When you send your well-packed parcel to AES, be sure to include a letter inside the package stating your call, name, address, e-mail address, phone and reason for return. Do not rely on information written or taped on the outside of the carton.

SHIPPING

Shipping charges, which include adequate insurance, are based on the Order Total at the time of the initial shipment (COD fees not included). The order amount on which charges are determined is pre-coupon and pre-tax (see chart on this page for rates). Cancellations on partially shipped orders

will not affect the shipping charges. All back-ordered items, partially shipped orders are shipped PREPAID at the expense of AES via UPS Ground Service to the contiguous 48 states only. Shipping calculations on Ground method to the contiguous 48 states have been simplified by utilizing flat-rate categories (see chart on this page for rates). Other expedited methods and any USPS methods are charged at regular rates without any credit for ground rates. CODs are not accepted for these faster methods or USPS. Shipments to APO/EPO are via Priority Mail. Orders exceeding ground method weight, size or value limits will be shipped via Truck or Air Freight collect. Shipping charges are taxable in WI, OH, FL & NV.

To insure orders arrive quickly, AES stocks items at all four locations. Occasionally, an item will be temporarily unavailable at certain branches, due to various reasons. In this case, AES will ship the order from a location that has the needed item.

TRADE-INS - CALL BEFORE SENDING

Amateur Electronic Supply accepts trade-ins on new equipment purchases, the worth of which is determined by the electrical and physical condition of the item. Estimates are given assuming the trade-in is in good electrical and physical condition. If it is not, a deduction will be made.

To facilitate a trade-in, the customer can choose one of the following: (A) Purchase the new item(s), send in the trade for evaluation, and have the trade-in amount refunded or credited. (B) Send in the trade and have the order held until the trade-in amount is determined.

When shipping trade-ins for evaluation, use a sturdy carton (double boxing is recommended) and plenty of packing material. Ship PREPAID & FULLY INSURED. Do not use Bus or Parcel Post. Collect shipments not accepted.

AES assumes no responsibility for damage in transit or for filing of damage claims. Canadians, inquire locally about taxes and/or customs charges before releasing your shipment.

Canadians Note: Returned equipment not originally manufactured in the U.S. will be subject to valuation and custom charges, plus broker's fees. Check customs before shipping anything to us, including new equipment for warranty repair. We will not accept any shipments from outside of the U.S. unless all fees are paid in advance.

BIDS & PURCHASE ORDERS

AES accepts written and signed Purchase Orders from well rated D&B companies, military, schools, colleges, universities and federal, state, county and city Government agencies.

We welcome the chance to bid on your requirements and search the Internet daily for requests from all Government agencies. We are registered with FACNET and accept Government I.M.P.A.C.® charge cards. For more information please contact any AES location.

SPECIAL ORDERS

Occasionally manufacturers offer items that AES doesn't stock. However, we can order these items for you. Please contact sales: info@aesham.com for more information on special orders. Please note that once a special order is placed it cannot be canceled or returned.

INTERNATIONAL ORDERS

AES can ship orders internationally. However our domestic policies do not apply to these orders. Payments will need to be made via bank wire transfer. We charge the actual freight amount, and the buyer will be responsible for all local fees and duties. To get a quote for an international order please contact info@aesham.com for complete details. All international regulations apply.

EU COUNTRIES

Due to current European Union (EU) regulations, AES CANNOT export most products to EU member countries and members of the European Economic Area (EEA).

FLAT RATE SHIPPING via UPS Ground in the contiguous 48 States

AMOUNT OF ORDER

SHIPPING CHARGES

Up to \$100.00	\$4.99
\$100.01 to \$500.00	\$9.99
\$500.01 to \$1499.99	\$14.99
\$1500.00 & UP	PREPAID

*Flat Rate Does Not Apply To Drop Shipments or
UPS Ground Shipments to Alaska or Hawaii*

Flat Rate Advantage - No Penalty for Number of Cartons or Weight!

UPS cannot deliver to PO Boxes

Our Experienced Sales Staff at your Service...

MILWAUKEE, WI 414-358-0333 • 1-800-558-0411



CARL W9CLH



GARY L. KA9YTB



PAUL W9KHO



JIM WJ9P



SANDY K9WOOF
AES SALES DOG



TOM W9TJP
National Sales
Manager



JEFF N9EDQ
Assistant Manager



JOEL NF9K



RAY W9KHH



GREG K9XB

CLEVELAND, OH 440-585-7388 • 1-800-321-3594



BEN AA8AH
Store Manager



ALEX K8EUR
Assistant Manager



KIPP N2JAF



PHILLIP KB8GA



MIKE KC8NMW

LAS VEGAS, NV 702-647-3114 • 1-800-634-6227



LUKE KK7XX
Store Manager



JULIO KP4UZ
Assistant Manager
Hablo español
Ich spreche Deutsch



CHUCK K3CEC



SQUEAK AD7K



ART K7ZE

ORLANDO, FL 407-894-3238 • 1-800-327-1917



CHARITY KF4RQY
Store Manager



GRANT K4IQW
Assistant Manager



EDDIE KD4RAZ
Assistant Manager
Hablo español



ERNIE K1HO



GEORGE K2WO



JIM AA9LW

CALL 414-358-4087 for SERVICE

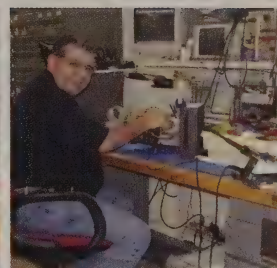
Unlike some dealers, when you purchase a new radio from us our Service Department is able to provide you with outstanding technical support. Our technicians have decades of cumulative experience in the Ham Radio service field.



MILES, K9HMQ (SERVICE MANAGER)
(Milwaukee Store)



RICK, WB9HKE
(Milwaukee Store)



RAUL, W2FR
(Orlando Store)

Warranty Service

Please refer to manufacturers' warranty for information about warranties. Radios that are purchased new from AES and qualify for warranty will be repaired at no charge by AES or the manufacturer (DOA's may be replaced).

Out-Of-Warranty, Late Model Equipment

Whether the item was purchased from us or not, we will attempt to service it, provided service parts are still available. Before shipping your out-of-warranty items, arrangements must be made by phoning the Milwaukee Service Department at 414-358-4087.

Shipping Equipment for Service

Before sending your item, make sure you contact the nearest AES location and find out the time frame for repairs. If you are concerned about time limitations, this will help you determine where to send the repair and how long your radio will be out.

Always include the following along with the item being shipped:

- a detailed note describing the problem(s)
- your address, day-time phone number, and email address
- a copy of the original invoice, if item is still under warranty
- the method of payment (see Policies page for options)

After packing your item securely in a box with ample packing materials (foam, styrofoam spacers, etc.), mark the shipping label "Attn: Service", and always adequately insure your items.

Labor Rates

- \$60 per hour for Out-Of-Warranty Service
- \$80 minimum on HF/VHF Base Stations
- \$60 minimum on VHF Mobiles and Handheld Transceivers
- Rates do not include Parts, Return Shipping or Handling Charge

SHIPPING INFORMATION

FLAT RATE SHIPPING via UPS Ground Method in the Lower 48 States

AMOUNT OF ORDER	SHIPPING CHARGES
Up to \$100.00	\$4.99
\$100.01 to \$500.00	\$9.99
\$500.01 to \$1499.99	\$14.99
\$1500.00 & UP	PREPAID

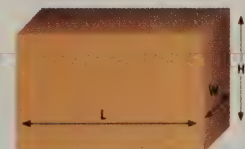
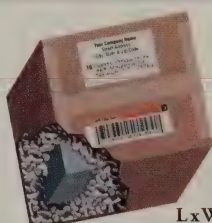
Flat Rate Does Not Apply To Drop Shipments or UPS Ground Shipments to Alaska or Hawaii
Flat Rate Advantage - No Penalty for Number of Cartons or Weight!

EXCEPTIONS TO RATES ABOVE

Optional UPS methods (Red, Blue & Orange) and any USPS methods are charged at Regular Rates without any credit for UPS ground rates. COD's are not accepted for these other methods.

Shipments to APO/FPO go via Priority Mail. Puerto Rico, Alaska and Hawaii can be shipped to via Priority Mail or Blue Label. Orders exceeding UPS or USPS weight, size or value limits will be shipped via Truck or Air Freight collect. Shipping charges taxable in WI, OH, FL & NV.

Please see **Policies Page** for complete information.



Packing

When returning heavy, delicate, and expensive equipment, it must be carefully packed in order to avoid damage caused by normal transportation dynamics. In other words, if you put your IC-756PRO, TS-2000 or AL-1500 in a box with little or no packing beneath it, chances are it will sustain some damage. When contents of packages are damaged, claims will be paid only if the carton and packing meet standards set in the International Safe Transit Association Procedure 1 and 1-A. These standards simply state that cartons and packing should provide reasonable protection to their contents. Ideally, contents should be suspended in the center of the carton by the packing material, no less than three inches on all sides for heavy items. For items heavier than 20 pounds, three inches of foam or crumpled paper should be used instead of polystyrene edge protectors.

Include information

When you send your well-packed parcel to AES for repair, return or trade-in, be sure to include a letter inside the package. Do not rely on information written or taped on the outside of the carton. This information can be destroyed by moisture or abrasion. In the letter, put your call, name, address, phone and reason for return. You may also want to include your e-mail address and times you can be reached via telephone.

Dim Weight

When calculating the cost of Air Shipments, whether Fed-Ex, UPS or other carrier, they use Dimensional (Dim) weight to insure adequate revenues per cubic foot of cargo plane space. The illustration above shows how to calculate the Dim weight for both Domestic and International shipments. For example: a 12"x13"x16" box that weighs 6 pounds will be sent at the 12 pound rate via Domestic Air.

$$\frac{L \times W \times H}{194} = \text{Dimensional Weight}$$

$$\frac{L \times W \times H}{166} = \text{Dimensional Weight}$$

TRACKING NUMBERS for out-bound shipments are gladly given. Call our local number, 414-358-0333, and ask for our Tracking Number Service.

We Invite You to Visit the Nearest AES® Location

All Store Hours: Monday–Friday • 9am to 5:30pm, Saturday • 9am to 3pm

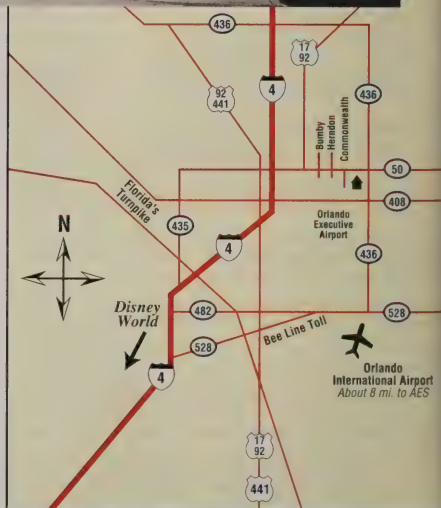


5710 W. Good Hope Rd. • 414-358-0333 • 1-800-558-0411

CLEVELAND, OHIO



28940 Euclid Ave. • 440-585-7388 • 1-800-321-3594

ORLANDO, FLORIDA

621 Commonwealth Ave. • 407-894-3238 • 1-800-327-1917



4640 South Polaris Ave. • 702-647-3114 • 1-800-634-6227



<p>ALHCO (HAM DISTRIBUTORS) 1775 North Loop 336 East, Suite 8 Conroe, TX 77301 936-649-1497 • fax: 936-649-1303 info@hamdistributors.com</p> <p>ALPHA DELTA P.O. Box 620 Manchester, KY 40962 606-598-2029 • fax: 606-598-4413 sales-info@alphadelta.com</p> <p>AMERICAN RADIO RELAY LEAGUE 225 Main St. Newington, CT 06111 860-594-0200 • fax: 860-594-0259 hq@arrl.org</p> <p>ANTENEX 1751 Wilkening Ct. Schaumburg, IL 60173 847-839-6035 • fax: 847-839-6035 customercare@antennex.com</p> <p>ARROW ANTENNAS 911 E. Fox Farm Road #2 Cheyenne, WY 82007 307-638-2369 arrowantennas.com</p> <p>AOR U.S.A. 20655 S. Western Ave. Suite 112 Torrance, CA 90501 310-787-8615 • fax: 310-787-8619 info@aorusa.com</p> <p>ASTRON CORPORATION 9 Autry Irvine, CA 92618 949-458-7277 • fax: 949-458-0826 sales@astroncorp.com</p> <p>BARKER & WILLIAMSON (B&W) 603 Cicdo Road Cocoa, FL 32926 321-639-1510 • fax: 321-639-2545 tech@bwantennas.com</p> <p>BENCHER/ BUTTERNUT 241 Depot Street Antioch, IL 60002 847-838-3195 • fax: 847-838-3479 bencher@bencher.com</p> <p>BILAL COMPANY (ISOTRON ANTENNAS) 137 Manchester Drive Florissant, CO 80816 719-687-0650 phone/fax www.isotronantennas.com</p> <p>CABLE X-PERTS P.O. Box 193 Lincolnshire, IL 60069 800-828-3340 • fax: 847-276-2577 info@cablexperts.com</p> <p>COMET ANTENNA See - NCG Co.</p> <p>COMMUNICATIONS SPECIALISTS 426 West Taft Ave. Orange, CA 92865 800-854-0547 • fax: 800-850-0547 sales@com-spec.com</p> <p>CONNECT SYSTEMS 1802 Eastman Ave Suite 116 Ventura, CA 93003 805-642-7184 • fax: 805-642-7271 sales@connectsystems.com</p> <p>CUSHCRAFT CORPORATION 48 Perimeter Road Manchester, NH 03108 603-627-7877 • fax: 603-627-1764 techsup@cushcraft.com</p> <p>DAVIS INSTRUMENTS 3465 Diablo Ave. Hayward, CA 94545 510-732-9229 • fax: 510-670-0589 support@davisnet.com</p>	<p>DCI DIGITAL COMMUNICATIONS 20 South Plains Road Emerald Park, SK, Canada - S4L 1B7 800-563-5351 • fax: 306-781-2008 dci@dci.ca</p> <p>DIAMOND ANTENNA/RF PARTS 435 So. Pacific St. San Marcos, CA 92078 760-744-0900 • fax: 760-744-1943 diamondantenna@rfparts.com</p> <p>GAP ANTENNA PRODUCTS 99 North Willow St. Fellsme, FL 32948 772-571-9922 • fax: 772-571-9988 contact@gapantenna.com</p> <p>GARMIN USA 1200 E. 151st Street Olathe, KS 66062 800-800-1020 • fax: 913-397-8282</p> <p>GLEN MARTIN ENGINEERING 13620 Old Hwy 40 Boonville, MO 65233 800-486-1223 • fax: 775-490-1300 info@glenmartin.com</p> <p>GRUNDIG/ETON 1015 Corporation Way Palo Alto, CA 94303 800-872-2228 • fax: 650-903-3867 info@grundig.com</p> <p>HAL COMMUNICATIONS P.O. Box 365 Urbana, IL 61803 217-367-7373 • fax: 217-367-1701 halcomm@halcomm.com</p> <p>HARGER LIGHTNING & GROUNDING 301 Ziegler Drive Grayslake, IL 60030 800-842-7437 • fax: 847-548-8755 hargersales@harger.com</p> <p>HEIL SOUND 5800 N. Illinois Fairview Heights, IL 62208 618-257-3000 • fax: 618-257-3001 info@heilsound.com</p> <p>HUSTLER (NEW-TRONICS) 225 Van Story Road Mineral Wells, TX 76067 877-994-9499 • fax: 940-325-5077 service@new-tronics.com</p> <p>ICOM AMERICA 2380 116th Avenue N.E. Bellevue, WA 98004 425-454-8155 • fax: 425-454-1509 amateur@icomamerica.com</p> <p>ICOM SERVICE CENTER - MICHIGAN 1792 Nash Drive St. Joseph, MI 49085 269-429-2334</p> <p>ICOM SERVICE CENTER - SOUTH EAST 1140 Watkins Road Anderson, SC 29625 864-222-3539 • fax: 864-222-3538</p> <p>KANTRONICS 3115 West 6th. St. Suite A Lawrence, KS 66049 785-842-7745 • fax: 785-842-2031 service@kantronics.com</p> <p>KENWOOD COMMUNICATIONS P.O. Box 22745 Long Beach, CA 90801-5745 310-639-4200 • fax: 310-537-8235 kcc-amateur@kenwoodusa.com www.kenwood.net</p> <p>KENWOOD SERVICE CENTER-WEST 17300 Marquardt Ave. Cerritos, CA 90703-1023 562-483-8740 • fax: 562-483-8749</p>	<p>KENWOOD SERVICE CENTER-EAST 829 Lynnhaven Parkway, #130 Virginia Beach, VA 23452 757-340-1702 • fax: 757-340-6809</p> <p>LDG ELECTRONICS 1445 Parran Rd. P.O. Box 48 St. Leonard, MD 20685 410-586-2177 • fax: 410-586-8475 ldg@ldgelectronics.com</p> <p>LARSEN ANTENNAS 3611 NE 112th Ave. Vancouver, WA 98682 360-944-7551 • fax: 360-944-7556 www.larsen-antennas.com</p> <p>M2 ANTENNAS 4402 N. Selland Ave. Fresno, CA 93722 559-432-8873 • fax: 559-432-3059 www.m2inc.com</p> <p>MFJ ENTERPRISES (AMERITRON, HY-GAIN, MIRAGE, VECTRONICS) 300 Industrial Park Rd. Starkville, MS 39759 800-647-1800 • fax: 662-323-6551 mfjcustserv@mfjenterprises.com</p> <p>(AMERITRON) 662-323-8211 ameritron@ameritron.com</p> <p>(HY-GAIN) 662-323-9538 hygain@mfjenterprises.com</p> <p>(MIRAGE) 662-323-8287 mfjcustserv@mirageamp.com</p> <p>(VECTRONICS) 662-323-5800 mfjcustserv@vectors.com</p> <p>MAHA COMMUNICATIONS 1647 Yaeger Ave. La Verne, CA 91750 800-376-9992 • fax: 909-392-1035 www.mahaenergy.com</p> <p>NCG CO. (COMET, DAIWA, MALDOL) 1275 North Grove St. Anaheim, CA 92806 800-962-2611 • fax: 714-630-7024 sales@natcommgroup.com</p> <p>NCs (NEW COMM. SOLUTIONS) 5364 Valley Mist Trace Suite 101 Norcross, GA 30092 888-883-5788 phone/fax ncs@ncsradio.com</p> <p>OUTBACKER NORTH AMERICA/KENT 214 Second St. Manchester, KY 40962 888-302-8777 information@outbackerantennas.com</p> <p>PALOMAR ENGINEERS P.O. Box 462222 Escondido, CA 92046 760-747-3343 • fax: 760-747-3346 info@palomar-engineers.com</p> <p>PALSTAR 9676 N. Looney Road Piqua, OH 45356 800-773-7931 • fax: 937-773-8003 info@palstar.com</p> <p>POWERWERX 555 W Lambert Road #0 Brea, CA 92821 714-674-4900 • fax: 714-674-4949 www.powerwerx.com</p> <p>RADIOWAVZ 607 Blue Cove Terrace Lake Saint Louis, MO 63367 636-265-0448 • fax: 866-201-0593 www.radiowavz.com</p>	<p>SGC 13737 S.E. 26 St. Bellevue, WA 98005 800-259-7331 • fax: 425-746-6384 sgc@sgcworld.com</p> <p>SMILEY ANTENNA CO. 408 La Cresta Heights Rd. El Cajon, CA 92021 619-579-8916 • fax: 619-579-8598 bill@htantennas.com</p> <p>SONY 1200 N. Arlington Itasca, IL 60143 630-773-6000 • fax: 630-773-7695</p> <p>TIMES MICROWAVE SYSTEMS 358 Hall Ave Wallington, CT 06492 800-TMS-COAX • fax: 203-949-8423 jlanoue@timesmicrowave.com</p> <p>TIMEWAVE TECHNOLOGY 1025 Selby Ave., Suite 101 St. Paul, MN 55104 651-489-5080 • fax: 651-489-5066 techsupport@timewave.com</p> <p>UNIDEN 4700 Amon Carter Blvd Fort Worth, TX 76155 800-297-1023 • fax: 817-858-3333 www.uniden.com</p> <p>UNIFIED MICROSYSTEMS 3310 Bonnie Lane / P.O. Box 133-W Slinger, WI 53086 262-644-9036 phone/fax w9xt@unifiedmicro.com</p> <p>UNIVERSAL MANUFACTURING 43900 Groesbeck Hwy. Clinton Township, MI 48036 800-542-3450 • fax: 586-463-2964</p> <p>US TOWER CORPORATION 1099 W. Ropes avenue Woodlake, CA 93286 or 702 E. North St. Lincoln, KS 67455 559-564-6000 • fax: 559-564-6011 www.ustower.com</p> <p>VIBROPLEX 11 E. Midtown Park Mobile, AL 36606-4141 251-478-8873 • fax: 251-476-0465 vibroplex@vibroplex.com</p> <p>WART ELECTRONICS 3077-K Leeman Ferry Rd Huntsville, AL 35801 info@w4rt.com fax: 256-880-3866</p> <p>WSYI GROUP P.O. Box 565101 Dallas, TX 75356 817-274-0400 • fax: 817-860-3800 admin@wsyi.org</p> <p>WEST MOUNTAIN RADIO 18 Sheehan Avenue Norwalk, CT 06854 www.westmountainradio.com 203-853-8080 • fax: 203-299-0232</p> <p>YAESU (VERTEX STANDARD) 10900 Walker Street Cypress, CA 90630 714-827-7600 customerservice@vxstdusa.com</p>
---	--	--	---

LINKS TO OTHER MANUFACTURERS' SITES AT **WWW.AESHAM.COM**
AES SERVICE 414-358-4087

Tune in and expand your world!

Introducing Icom's **IC-R9500** Wide Band Receiver*

We've raised the bar with our super performance, multiple function wide band "measuring" receiver. The IC-R9500 has normal and wide spectrum scope functions. With five roofing filters before the first amp, two independent 32 bit floating point DSP processors, and 7-inch wide color TFT LCD, this is something to get excited about!



Features:

0.005 - 3335.000 MHz*
 USB, LSB, CW, FSK, FM, WFM, AM
 1020 Alphanumeric Memories
 P25 (Option UT-122)
 Five Roofing Filters
 Dual DSP
 Digital IF Filter
 Multi-function Spectrum Scope

7-inch TFT LCD Display
 Noise Blanker
 Noise Reduction
 Multi-scan Functions
 Voice Synthesizer
 Digital Voice Recorder
 USB Connector
 Receive Assist Functions

*Frequency coverage may vary. Refer to owner's manual for exact frequency specs.

It just got better!

IC-PCR1500

THE WHOLE WORLD IN A LITTLE BLACK BOX

0.01 - 3299.99 MHz*
AM, FM, WFM, USB, LSB, CW
Single Antenna Port
Three Operating Screen Options
Unlimited Memory Channels
PCR Digital Record



IC-PCR2500

DUAL RECEIVERS IN ONE BOX

0.01 - 3299.99 MHz*
AM, FM, WFM, SSB, CW, DV and P25 (Main)
AM, FM and WFM (Sub)
Unlimited Memory Channels
D-STAR Compatible (Option UT-118)
P25 (Option UT-122)



IC-R1500

MOBILE OR PC CONTROLLED SINGLE BAND RECEIVER

0.01 - 3299.99 MHz*
AM, FM, WFM, USB, LSB, CW
Single Antenna Port
Single Display
1000 Memory Channels



IC-R2500

MOBILE OR PC CONTROLLED DUAL BAND RECEIVER

0.01 - 3299.99 MHz*
AM, FM, WFM, SSB, CW, DV and P25 (Main)
AM, FM and WFM (Sub)
1000 Memory Channels
D-STAR Compatible (Option UT-118)
P25 (Option UT-122)



Tuning in the world? Hear more of what's out there with Icom. From handhelds to PC controlled receivers, Icom's got you covered! Visit your favorite AES store and tune in the world!

IC-R75

WIDE BAND RECEIVER

0.03 - 60.0 MHz
Triple Conversion
Twin Passband Tuning
Synchronous AM Detection (S-AM)
Digital Signal Processing (DSP)



IC-R20

ADVANCED WIDE-BAND RECEIVER
0.150 - 3304.0 MHz*
AM, FM, WFM, SSB, CW
1000 Memory Channels
Dual Watch Receiver
4 Hour Digital Recorder



IC-R3

SEE & HEAR WIDE-BAND RECEIVER
0.5 - 2450.0 MHz*
AM, FM, WFM, TV
Video/Audio Output Terminal
450 Memory Channels
Li-Ion Battery



IC-R5

COMPACT WIDE-BAND RECEIVER
0.5 - 1300.0 MHz*
AM, FM, WFM
1250 Memory Channels
CTCSS/DTCS Decode
Weather Alert



ICOM®

- Over 50 Years in Amateur Radio
- Knowledgeable Staff
- Complete Inventories
- Competitive Pricing
- Top Trades & Quality Used Gear
- Service Department

1-800-558-0411
www.aesham.com

AMATEUR ELECTRONIC SUPPLY
 5710 W. Good Hope Rd.
 Milwaukee, WI 53223

CHANGE SERVICE REQUESTED

#BYNNCLL *****AUTO**5-DIGIT 93422

#002533048# 0253304 W6FM

RON D PATTERSON

17355 WALNUT AVE

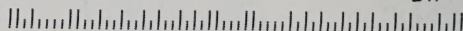
ATASCADERO CA 93422-6624

0001

P038

4129

247



PRSRT STD
 U.S. POSTAGE
PAID
 Permit #181
 Pewaukee, WI

DJ-X30T Wide Range Communications Receiver

captures shortwave signals and more!



NEW! Use with
 or without removable
 keypad.

100 KHz to 1.3 GHz* Triple conversion AM/NFM; double conversion WFM, optional EDS-12 cable can be used for remote-control and AUX capability, **1,000 memory channels**, easy to program memory banks, five scan modes, memory lock-out function, **selectable keyboard system** enables everyone from beginner to experienced operators to enjoy advanced features, use with or without removable keypad, 7.1oz compact design, five operating modes, internal AA battery, three different antenna modes. **Download free control software from www.alinco.com**

www.ALINCO.com

Distributed in North America by Ham Distributors, 1775 North Loop 336 East, Ste. 8, Conroe, Texas 77301 • Phone: 936-649-1497 • Fax: 936-649-1303 • email: USrep@Hamdistributors.com

Products intended for properly licensed operators. Permits required for MARS use. CAP use subject to equipment approval. Specifications subject to change without notice or obligation.

Performance specifications only apply to amateur bands. *Cellular blocked in USA. Unblocked versions available to qualified users; documentation required.

NOTICE: Effective 5/1/2004, ALL warranty claims and requests for repair/technical assistance for Alinco products should be sent to Ham Distributors regardless of contact information found on the warranty certificate packed with the product.